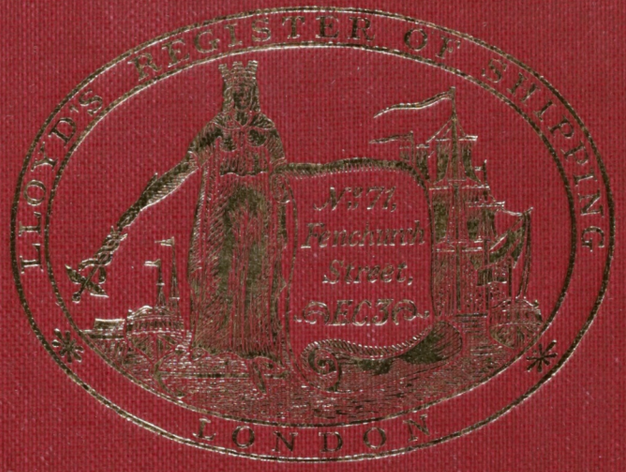


GEOMETRIC PROPERTIES OF ROLLED SECTIONS AND BUILT GIRDERS

NOT TO BE REMOVED

VOL. 2.

REGISTER BOOKS AND OTHER PUBLICATIONS ISSUED BY THE COMMITTEE OF LLOYD'S REGISTER OF SHIPPING

LLOYD'S REGISTER BOOK (Volumes I, II and III issued annually in July; Volume IV in January)

The four volumes may be purchased as a set, or separately.

VOLUME I (Register of Ships) contains the names, classes and general information concerning the ships classed by Lloyd's Register of Shipping and the British Corporation Register; also particulars of all known sea-going merchant ships in the world, and of all iron and steel ships trading on the North American Lakes, of 100 tons gross and upwards.

The Register is kept up to date by means of cumulative monthly Supplements containing the latest survey records for all classed ships, and changes of name, ownership, flag, tonnage, &c., for all ships, whether classed or not. Each Supplement is accompanied by particulars of new entries to the Register—that is, new ships and ships of which the names have been changed.

VOLUME II (Appendix) contains additional particulars—if supplied by owners or otherwise available—of structural details. capacities, &c., for ships other than tankers, tankers, ships carrying refrigerated cargo, refrigerated cargo containers, refrigerated stores, lists of changes of ships' names and of compound names.

VOLUME III (Shipowners) contains a list of owners and managers of the ships recorded in the Register with their fleets.

VOLUME IV (Directory) contains lists of shipbuilders with existing ships they have built; marine enginebuilders and boilermakers; dry and wet docks; telegraphic addresses and codes used by shipping firms; marine insurance companies.

Statistical Tables are issued gratis to Subscribers to the Register Book.

REGISTER OF YACHTS

Published annually in April, this volume contains in addition to the names, classes, and detailed information relating to yachts classed by the Society, the names, dimensions, &c., of other British and overseas yachts, whose particulars are known; a list of one-design classes, and the sail numbers of certain classes of racing yachts; also, in an Appendix, a list of various yacht clubs; reproductions in colour of club burgees and private signals of yachtsmen; an index of signal letters; lists of yachts whose names have been changed; yachts arranged according to tonnage; yacht builders and designers, with lists of the yachts they have built and designed, and a list of names and addresses of yacht owners, as well as other useful information.

The Racing Yacht Section and Regatta Fixtures may be purchased separately.

REGISTER OF AMERICAN YACHTS

This Register is published annually in May from the Society's New York Office. Copies may also be obtained on application to the Manager, Lloyd's Register Printing House, Manor Royal, Crawley, Sussex, England.

This book contains the names, dimensions, and full particulars of the yachts of the United States and Canada, so far as they are ascertainable; reproductions in colour of the burgees of yacht clubs and the private signals of yachtsmen; a list of yacht clubs with the names of their officers; an index of signal letters; late names of yachts; and a list of yacht owners of the United States and Canada, with their addresses, clubs and yachts.

Also issued separately:—

Club Burgees and Private Signals (in colour)

RULES FOR THE CONSTRUCTION AND CLASSIFICATION OF SHIPS, &c.:—

STEEL SHIPS, including General Rules and Regulations; Classification and Periodical Survey Regulations, and Rules for Construction of Steel Ships and Machinery; Boilers and other Pressure Vessels; Electric Propelling Machinery and Electrical Equipment; Pumping and Piping; Fire Extinguishing Arrangements; Machinery Spare Gear; Refrigerating Machinery and Appliances; and Quality and Testing of Materials. A Metric Edition is also published as well as editions in French, Spanish and German.

EXTRACTS FROM THE RULES FOR STEEL SHIPS:—

No. 1.—Classification Regulations and Periodical Survey Regulations

No. 2.—Classification and Periodical Survey Regulations; Pumping and Piping; Fire Extinguishing Arrangements; Steam and Internal Combustion Machinery; Boilers and other Pressure Vessels; Quality and Testing of Materials

No. 3.—Construction of Steam and Internal Combustion Machinery, and Quality and Testing of Materials

No. 4.—Construction of Boilers and other Pressure Vessels, and Quality and Testing of Materials. A Metric Edition is also available

No. 5.—Fire Extinguishing Arrangements

No. 6.—Construction of Electric Propelling Machinery and Electrical Equipment. A Metric Edition is also available

No. 7.—Construction and Periodical Survey of Refrigerated Cargo Installations for Ships; and Requirements for Frozen Meat Stores

No. 8.—Requirements for Quality and Testing of Materials, with a List of Approved Manufacturers and Proving Establishments

STEEL TRAWLERS

YACHTS Vol. I:—WOOD AND COMPOSITE YACHTS (Sailing, Auxiliary, and Full Power)

Vol. II:—STEEL YACHTS

Vol. III:—INTERNATIONAL RATING CLASSES

GEOMETRIC PROPERTIES OF ROLLED SECTIONS AND BUILT GIRDERS

Volume I British and U.S.A. Sections
Volume II Metric Sections
Volume III Japanese Sections

A series of curves giving section modulus and moment of inertia of a wide range of sections used in shipbuilding, in association with varying thicknesses of plating. The areas of the sections (without plating) are also given.

ANCHORS—APPROVED DESIGNS

Comprising lists (1) in alphabetical order of Firms, (2) in alphabetical order of name (if any) of anchors, together with descriptive sketches. Revised and brought up to date, 1945.

TERMS OF SUBSCRIPTION FOR THE REGISTER BOOKS AND PRICES OF OTHER PUBLICATIONS UPON APPLICATION TO THE MANAGER, LLOYD'S REGISTER PRINTING HOUSE, MANOR ROYAL, CRAWLEY, SUSSEX, ENGLAND.

LLOYD'S REGISTER OF SHIPPING

FOUNDED 1760

GEOMETRIC PROPERTIES
OF
ROLLED SECTIONS AND BUILT GIRDERS

Volume II

METRIC SECTIONS

71, FENCHURCH STREET, LONDON, E.C.3

Printed by Lloyd's Register of Shipping
at Garrett House
Manor Royal, Crawley, Sussex, England

PREFACE

This book has been prepared for the use of shipbuilders and designers in selecting the appropriate sections for longitudinals, frames and other stiffening members as required by the Society's revised Rules for Oil Tankers. The section modulus given by the formulæ in these Rules is that of the stiffener in association with 610 mm. of plating having the same thickness as the associated shell, deck or bulkhead plating, and curves have therefore been prepared giving the section modulus of sections in association with varying thicknesses of plating.

An endeavour has been made to include all rolled sections used in shipbuilding and it is intended to issue supplementary sheets when new sections are introduced. Suggestions from users of the book for the inclusion of additional sections will be welcome.

The areas of the sections (without plating) have been included so as to facilitate the selection of the most economic section.

Curves giving the moment of inertia in association with plating of varying thickness have also been included.

A set of curves is provided for determining the section modulus of built girders; these curves are also applicable to built or flat bar longitudinals.

June, 1960

Extract from "Rules and Regulations for the Construction and Classification of Steel Ships"

Chapter D

OIL TANKERS

Section 53

EFFECTIVE SECTION MODULUS, FACE AREAS AND MINIMUM THICKNESSES

EFFECTIVE SECTION MODULUS

Longitudinals, Frames and Stiffeners

5301 For longitudinals, side frames and bulkhead stiffeners the section modulus required by the appropriate formula is to be that of the section in association with 610 mm. of plating having the same thickness as the shell, deck or bulkhead plating as appropriate. Where the attached plating is of varying thickness, the mean thickness over the appropriate span is to be used.

The effective section moduli of rolled sections and the area of the section without plating are given in the publication "Geometric Properties of Rolled Sections and Built Girders".

The effective section moduli of flat bars or built sections may be obtained from curves in the above publication.

Transverses, Webs, Stringers and Girders

5302 For transverses, webs, stringers and girders, the section modulus required by the appropriate formula is to be that of the member in association with an effective area of shell, deck or bulkhead plating.

5303 Except for corrugated bulkheads, the effective area is to be:—

$$A = 10\ k\ b\ t_p \text{ square cm.,}$$

where k = a coefficient obtained from the table below,

b = actual width in metres of load-bearing plating, i.e., one half the sum of spacings of parallel adjacent members of greater or equivalent length (*see* sketches on pages ii and iii),

t_p = mean thickness of attached shell, deck or bulkhead plating in mm.,

l = overall length of girder, transverse, etc., in metres (*see* sketches on pages ii and iii).

$\frac{l}{b}$	0,5	1,0	2,0	3,0	4,0	5,0	6,0
k	0,12	0,23	0,45	0,67	0,80	0,90	1,00

For intermediate values of $\frac{l}{b}$, k is to be obtained by interpolation. Where $\frac{l}{b}$ exceeds 6,0, k is to be taken as 1,0.

5304 For corrugated bulkheads the effective area is to be:—

(a) for girders, etc., at right angles to the direction of corrugations:

A = area of face plate in square cm. (*see also* 5307).

(b) for girders, etc., parallel to the direction of corrugations:

$$A = \frac{b_c\ t_p}{100} \text{ square cm.,}$$

where b_c = breadth in mm. of flat panel of corrugated bulkhead,

t_p = thickness of bulkhead plating in mm. Where the bulkhead thickness varies, the mean thickness over the appropriate span is to be used.

5305 The effective section modulus of any transverse, web, stringer or girder is given by the formula:—

$$\frac{I}{y} = \frac{ad}{10} + \frac{t_w\ d^2}{6000}\left[1 + \frac{200\ (A - a)}{200\ A + t_w\ d}\right] \text{cm.}^3$$

where a = area of face plate in square cm.,

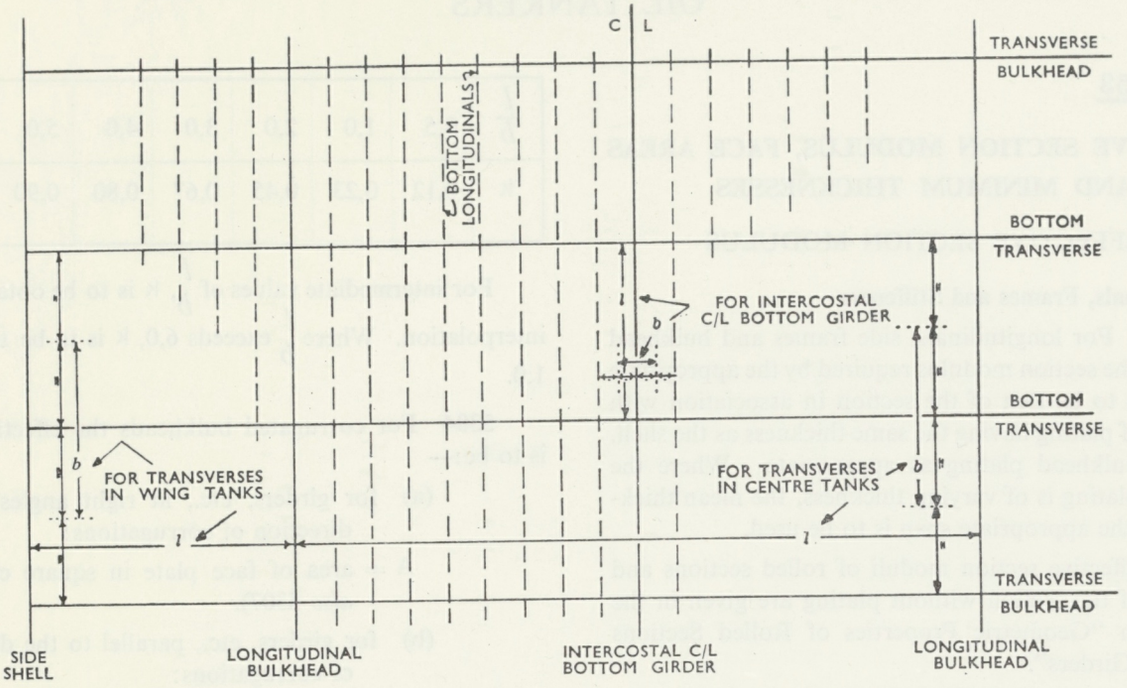
d = depth of girder, etc., between inside of face plate and attached plating, in mm. Where the girder, etc., is at right angles to the line of corrugations the minimum depth is to be taken,

t_w = thickness of web in mm.,

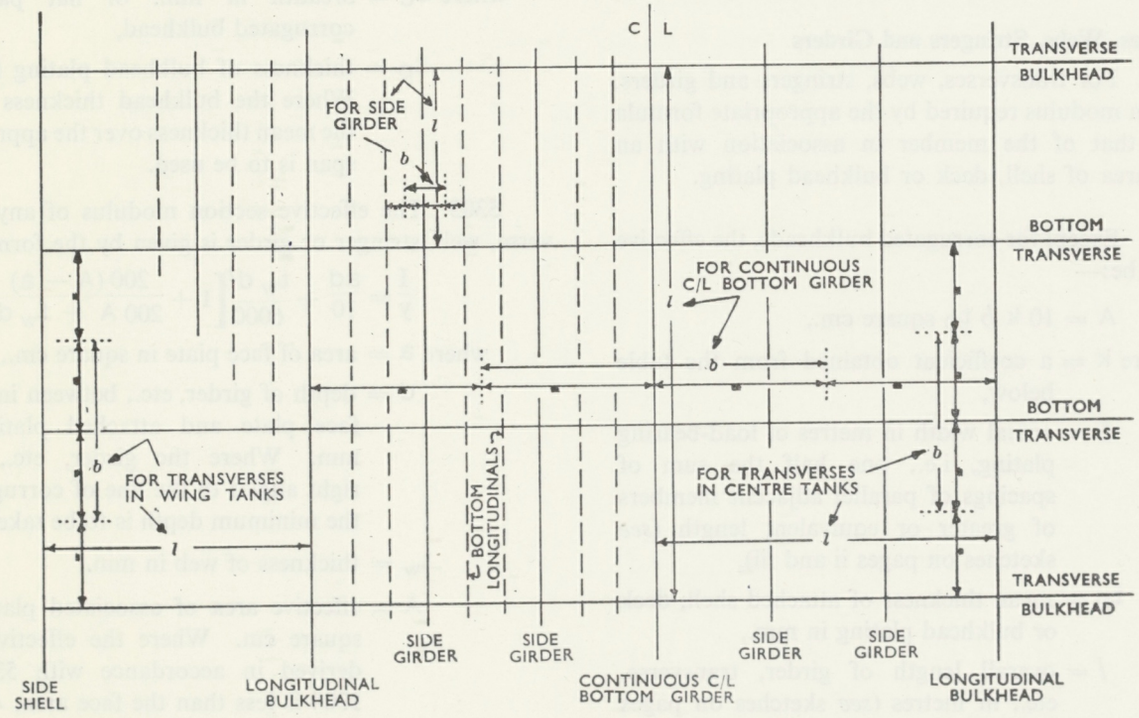
A = effective area of associated plating in square cm. Where the effective area derived in accordance with 5303 or 5304 is less than the face area, A is to be taken as equal to a.

TO ILLUSTRATE PARAGRAPH D 5303

(a) BOTTOM STRUCTURE WITH INTERCOSTAL BOTTOM CENTRE-LINE GIRDER

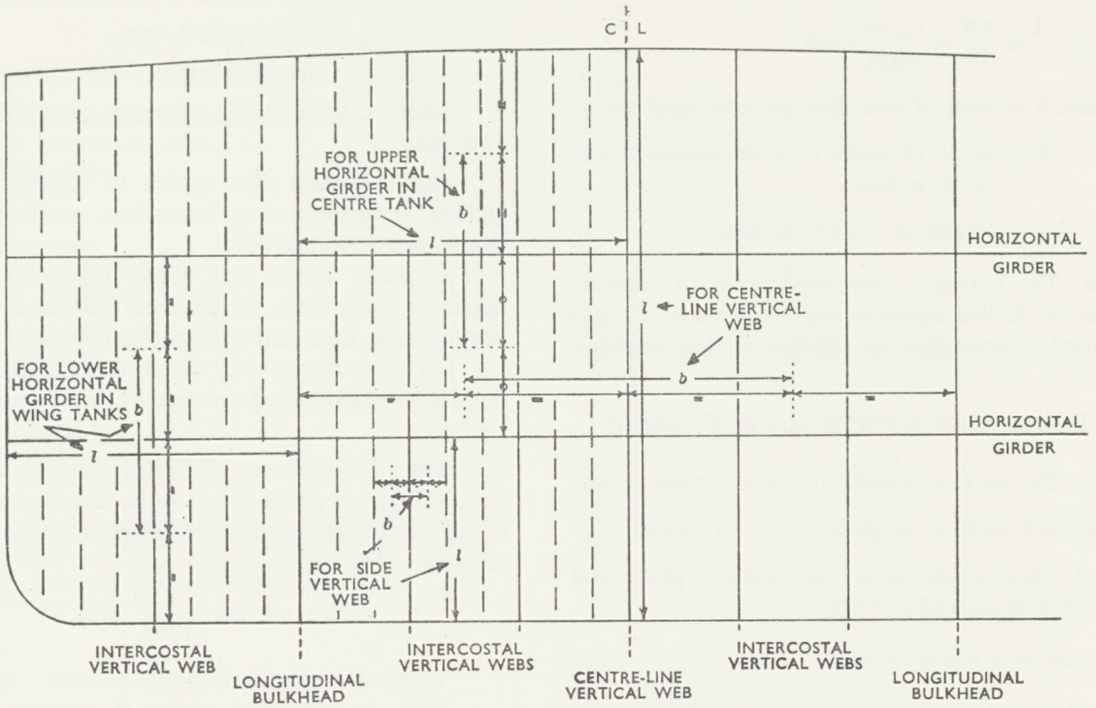


(b) BOTTOM STRUCTURE WITH CONTINUOUS BOTTOM CENTRE-LINE GIRDER

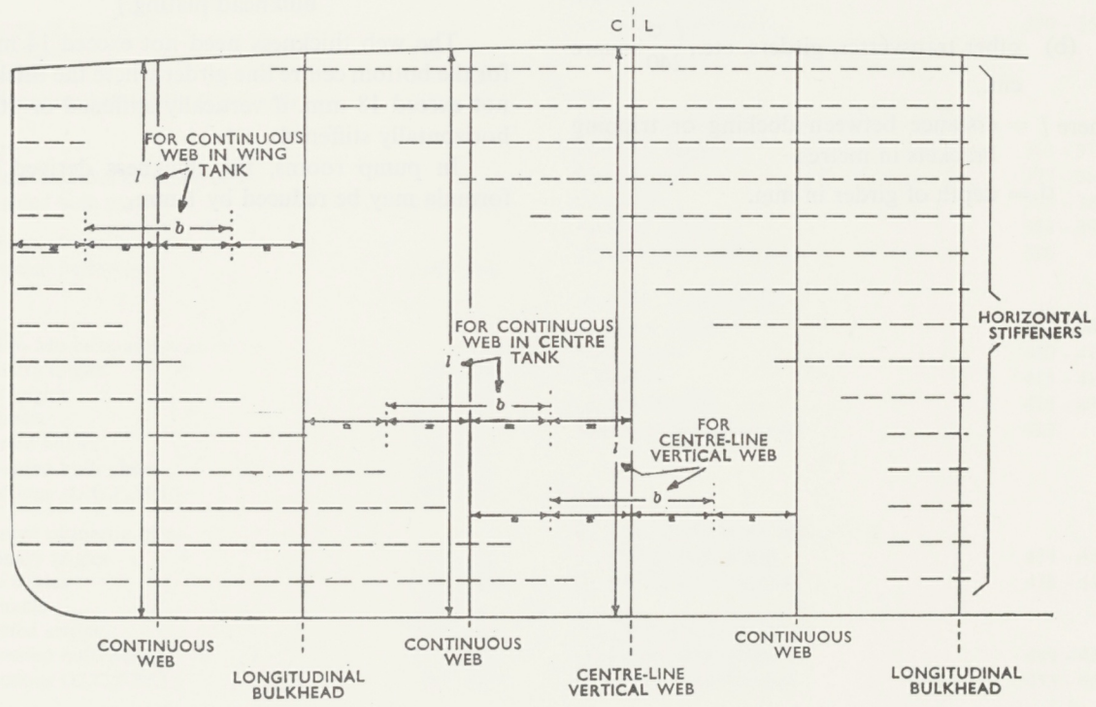


TO ILLUSTRATE PARAGRAPH D 5303

(c) TRANSVERSE BULKHEAD WITH VERTICAL STIFFENING



(d) TRANSVERSE BULKHEAD WITH HORIZONTAL STIFFENING



For girders, etc., which are symmetrical on each side of the bulkhead the attached plating is to be ignored and the effective section modulus is given by:—

$$\frac{I}{y} = \frac{a\,d}{10} + \frac{t_w\,d^2}{6000}\ \text{cm.}^3,$$

where a = area of one face plate in square cm.,

d = depth of girder between insides of face plates in mm.,

t_w = thickness of web, in mm.

5306 The curves in the publication "Geometric Properties of Rolled Sections and Built Girders" may also be used to determine the effective section modulus.

MAXIMUM AND MINIMUM FACE AREAS

5307 The area of material in the face plate of any transverse, web, stringer or girder is not to exceed $\frac{d\,t_w}{150}$ square cm. where d and t_w are the depth of girder and web thickness as defined in 5305.

The face area is not to be less than:—

(a) bottom centre line girder $\frac{l\,d}{60}$ square cm.,

(b) other transverses, girders, etc., $\frac{l\,d}{240}$ square cm.,

where l = distance between docking or tripping brackets in metres,

d = depth of girder in mm.

MINIMUM THICKNESS

5308 No part of the structure within the range of the cargo tanks is to be less in thickness than:

$$t_{min} = 6{,}85 + 0{,}024L \text{ mm.},$$

where L = length of ship.

Where L exceeds 198 metres t_{min} may be taken as 11,5 mm.

This minimum also applies to cofferdams at the ends of, or between, cargo tanks, but, except as indicated below, not to pump rooms.

In pump rooms the above minimum thickness applies to shell, decks, longitudinal bulkheads and to the bottom, side, deck and bulkhead longitudinals.

For other items solely within these spaces the minimum derived from the formula may be reduced by 1 mm.

5309 The thickness of the web plate of a transverse, web, stringer or girder is not to be less than the greater of the thicknesses required by 5308 or by the following formula:

$$t_{min} = 8{,}9 + 0{,}008\left(\frac{d}{100}\right)^2 \text{ mm.},$$

where d = depth of girder in mm. (In a symmetrical girder d may be measured between inside of face plate and the bulkhead plating.)

The web thickness need not exceed 14 mm. except for the bottom centre line girder where the thickness need not exceed 18 mm. if vertically stiffened or 16,5 mm. if horizontally stiffened.

In pump rooms, the thickness derived from this formula may be reduced by 1 mm.

LIST OF PLATES

	Plate Nos.
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Double-sided bulb plates (D.P.)	85 - 94
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Bulb angles	119 - 130
Channels	131 - 138
Inverted angles	139 - 162
One-sided bulb plates (H.P.)	163 - 176
Double-sided bulb plates (D.P.)	177 - 185

The particulars given in the plates listed below are for some sections which are particular to the country named. Other sections rolled in these countries may be similar to D.I.N. standards and the particulars given on plates 5 - 185 can be used.

Belgium	
Section Modulus and area of :—	
Bulb angles	186
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Double-sided bulb plates (Cockerill)	195 - 198
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T-sections (U.C.P.M.I.)	282 - 285

	Plate Nos.
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Section Modulus and area of :—	
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For Section Modulus and area and moment of inertia of Holland Profiles see plates 74 to 84 and 163 to 176 inclusive.

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Section Modulus and area of :—	
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One-sided bulb plates	350 - 362
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Section Modulus and area of :—	
Ordinary angles	363 - 376
Bulb angles	377 - 381
Channels	382 - 383
Inverted angles	384 - 395
Double-sided bulb plates	396
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Ordinary angles	397 - 409
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Inverted angles	418 - 432
Double-sided bulb plates	433
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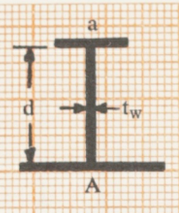
Section Modulus and area of :—	
One-sided bulb plates	434 - 437
T-sections (Norrbotten)	438 - 448
Moment of inertia of :—	
One-sided bulb plates	449 - 452
T-sections (Norrbotten)	453 - 463

SECTION MODULUS OF BUILT GIRDERS

(IN ASSOCIATION WITH PLATING)



$$\frac{I}{y} = C \times A \times d$$

$$\text{or } C = \frac{\text{Required } \frac{I}{y}}{A \times d}$$

Limit where $d = \frac{t_w d}{150}$

C

0,12 0,11 0,10 0,09 0,08 0,07 0,06 0,05 0,04 0,03 0,02 0,01 0,00

0,0 0,1 0,2 0,3 0,4 0,5 0,6 0,7 0,8 0,9 1,0 1,1 1,2 1,3 1,4 1,5 1,6 1,7 1,8 1,9 2,0

$\frac{t_w d}{100\ A}$

$\frac{a}{A}$

0,80 0,70 0,60 0,50 0,45 0,40 0,35 0,30 0,25 0,20 0,15 0,10 0,05 0,00

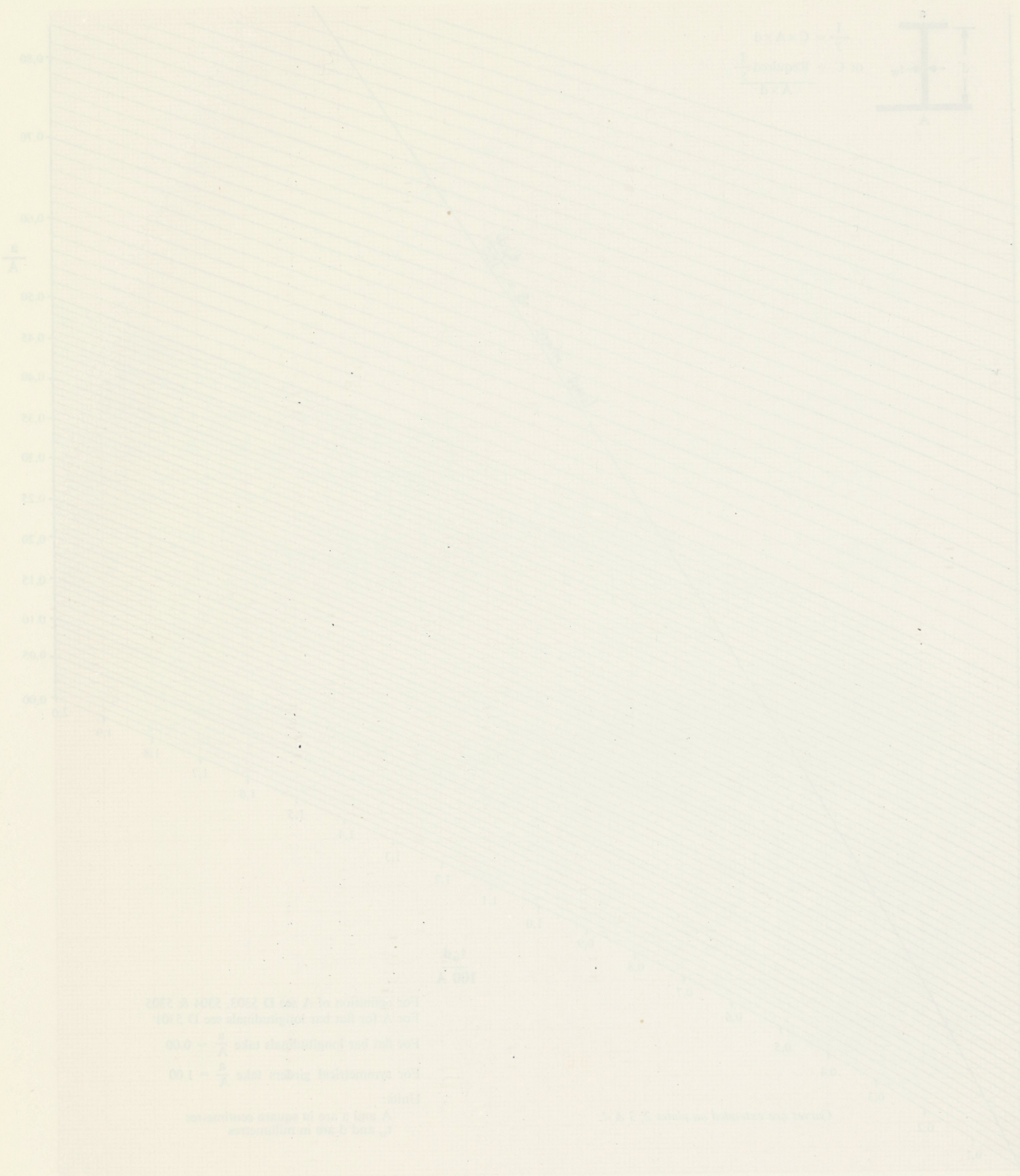
Curves are extended on plates 2, 3 & 4.

For definition of A see D 5303, 5304 & 5305
For A for flat bar longitudinals see D 5301

For flat bar longitudinals take $\frac{a}{A} = 0{,}00$

For symmetrical girders take $\frac{a}{A} = 1{,}00$

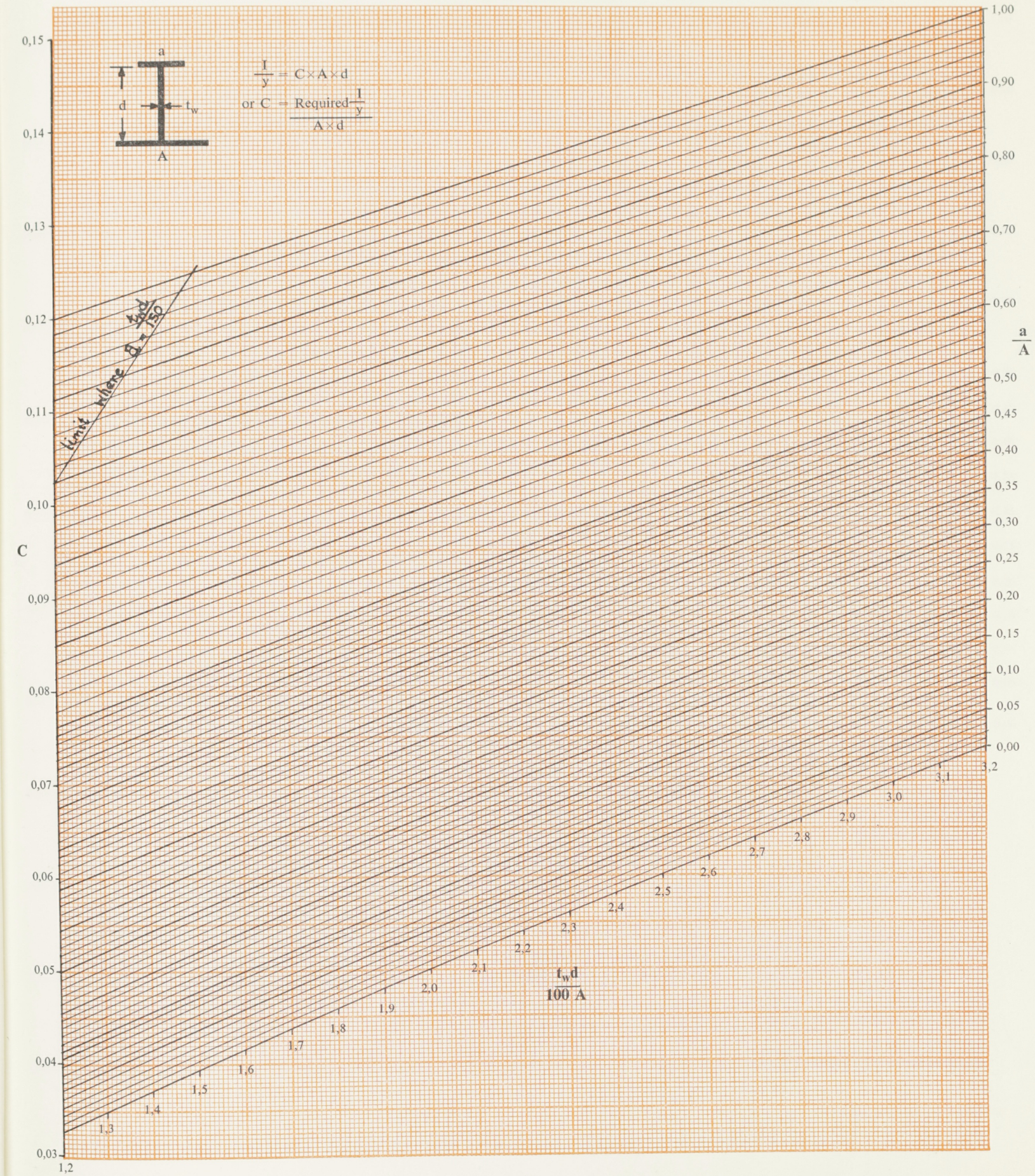
Units:
A and a are in square centimetres
t_w and d are in millimetres

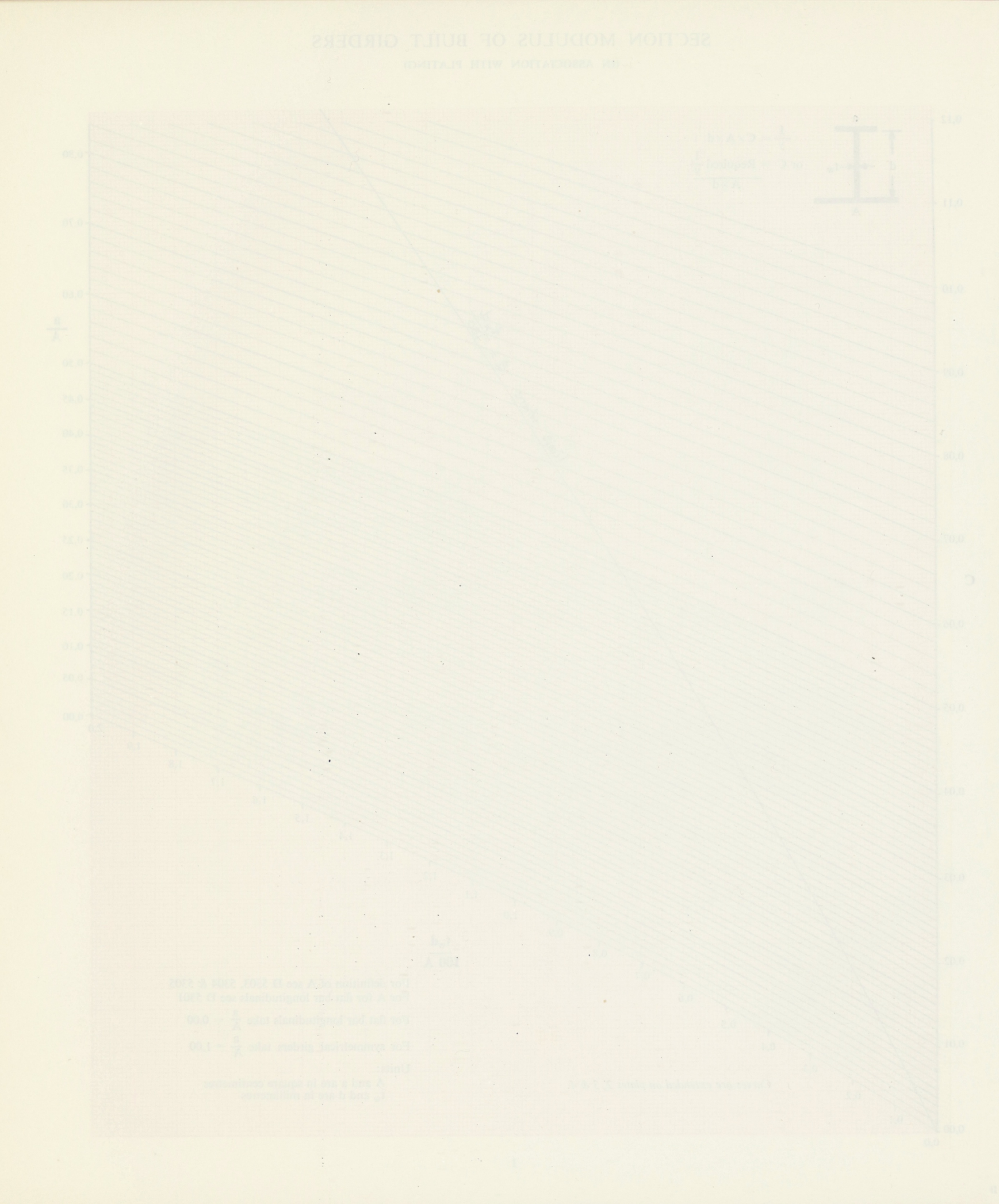


SECTION MODULUS OF BUILT GIRDERS

(IN ASSOCIATION WITH PLATING)

(*Continued*)

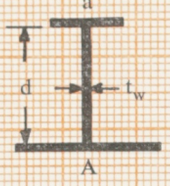




SECTION MODULUS OF BUILT GIRDERS

(IN ASSOCIATION WITH PLATING)

(*Continued*)



$$\frac{I}{y} = C \times A \times d$$

$$\text{or } C = \frac{\text{Required} \frac{I}{y}}{A \times d}$$

limit where $\frac{t_w d}{100 A} = 1.50$

C

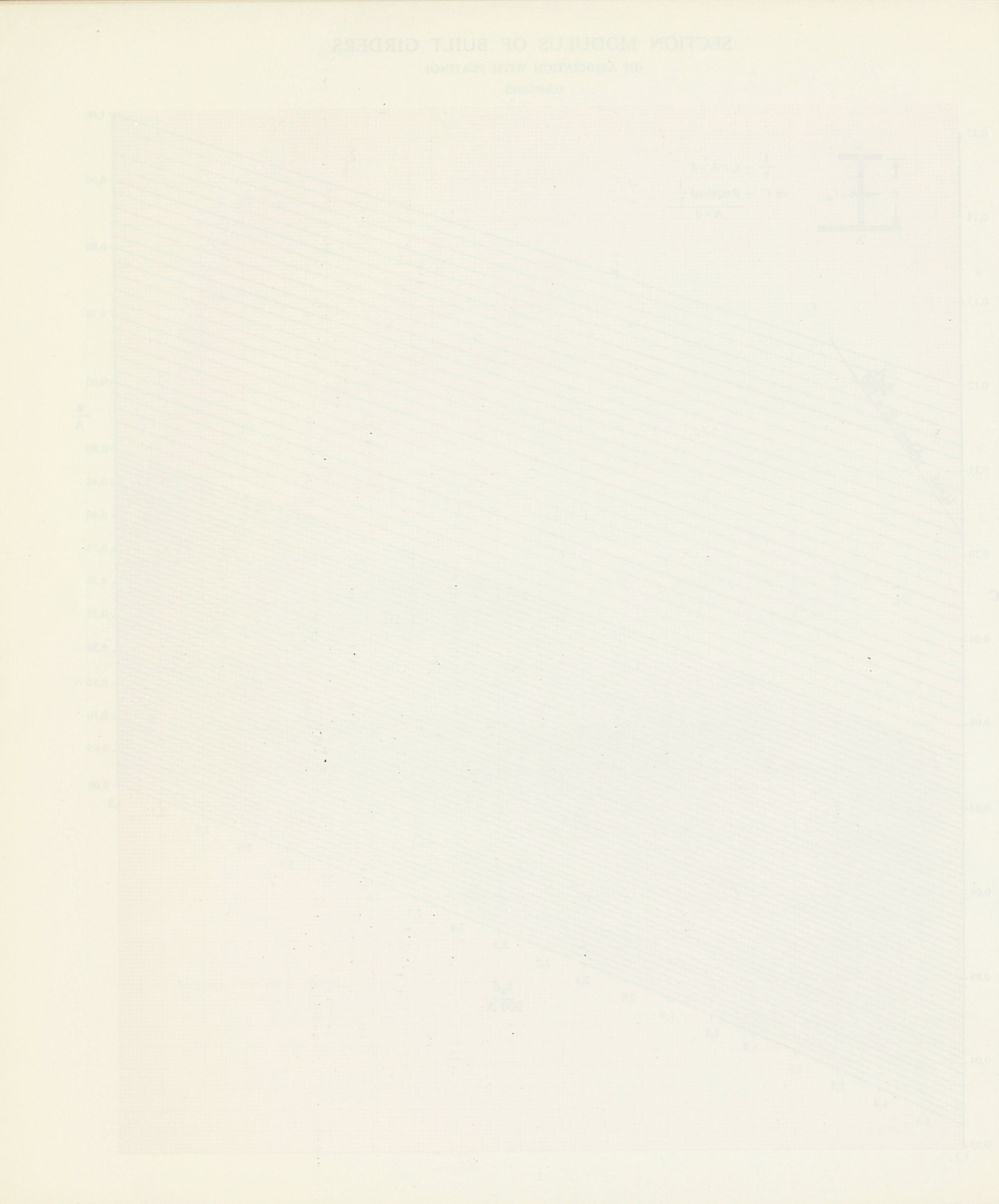
0,15 0,14 0,13 0,12 0,11 0,10 0,09 0,08 0,07 0,06 0,05 0,04 0,03

$\frac{t_w d}{100 A}$

1,2 1,3 1,4 1,5 1,6 1,7 1,8 1,9 2,0 2,1 2,2 2,3 2,4 2,5 2,6 2,7 2,8 2,9 3,0 3,1 3,2

$\frac{a}{A}$

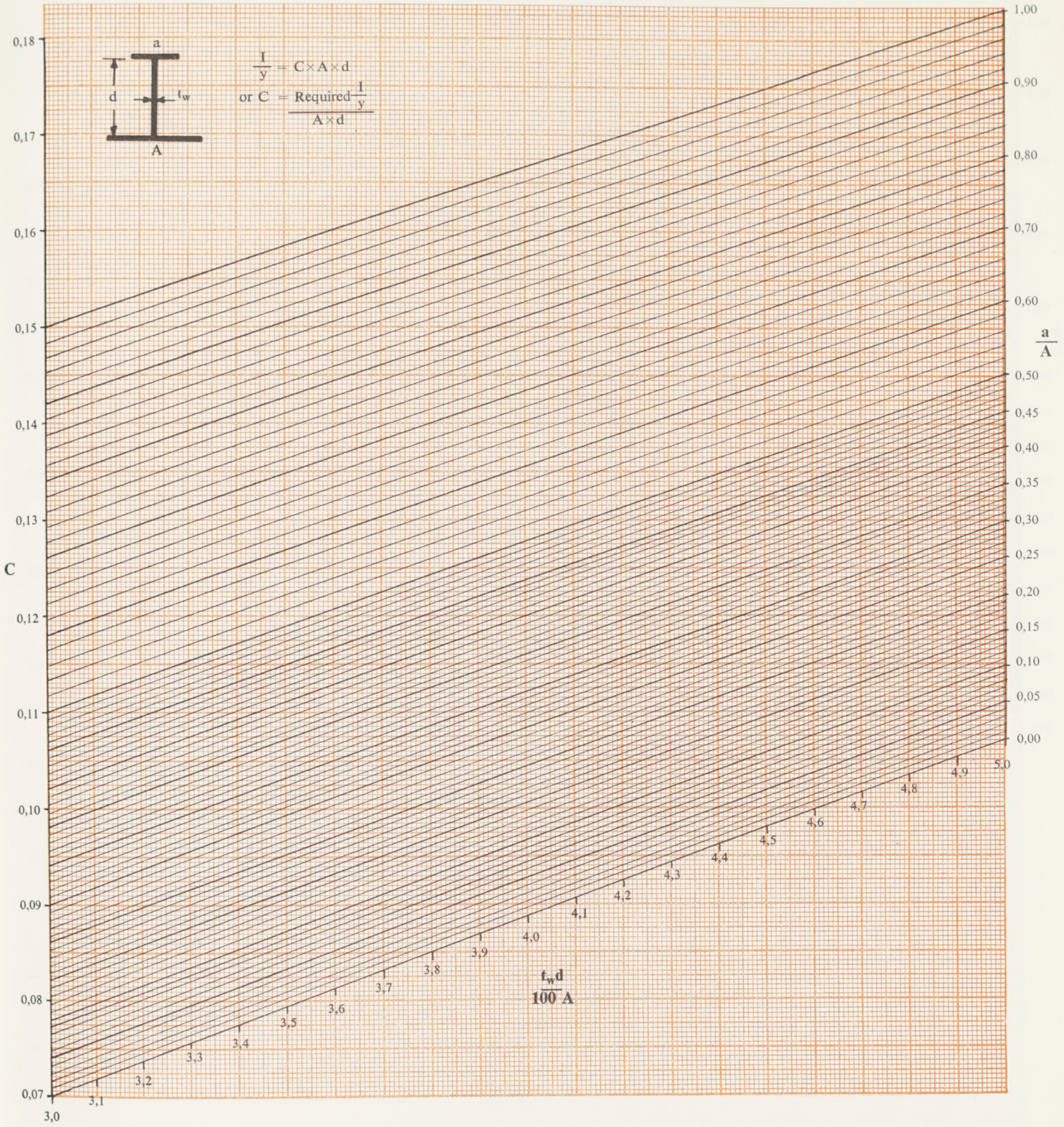
1,00 0,90 0,80 0,70 0,60 0,50 0,45 0,40 0,35 0,30 0,25 0,20 0,15 0,10 0,05 0,00

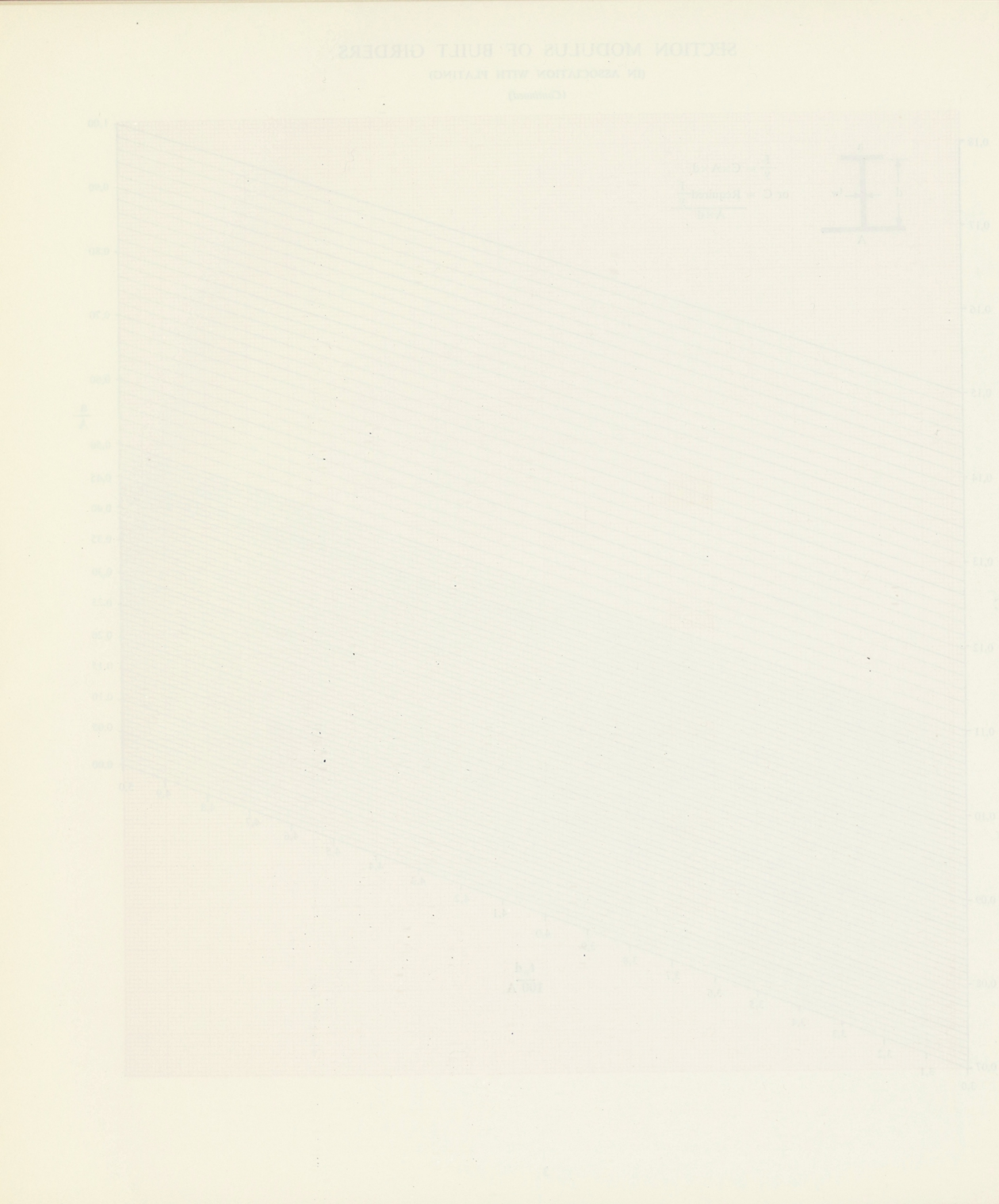


SECTION MODULUS OF BUILT GIRDERS

(IN ASSOCIATION WITH PLATING)

(Continued)

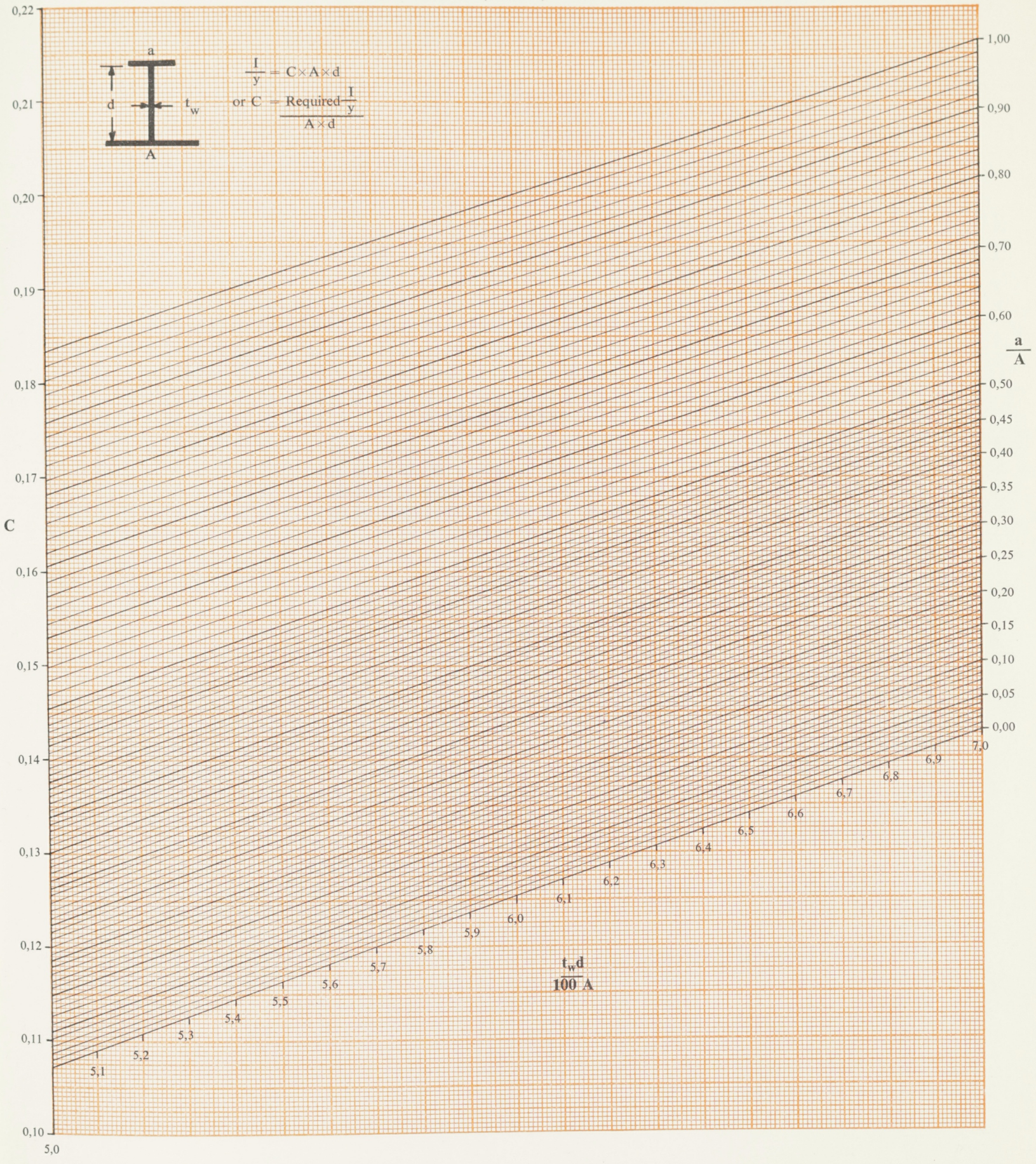


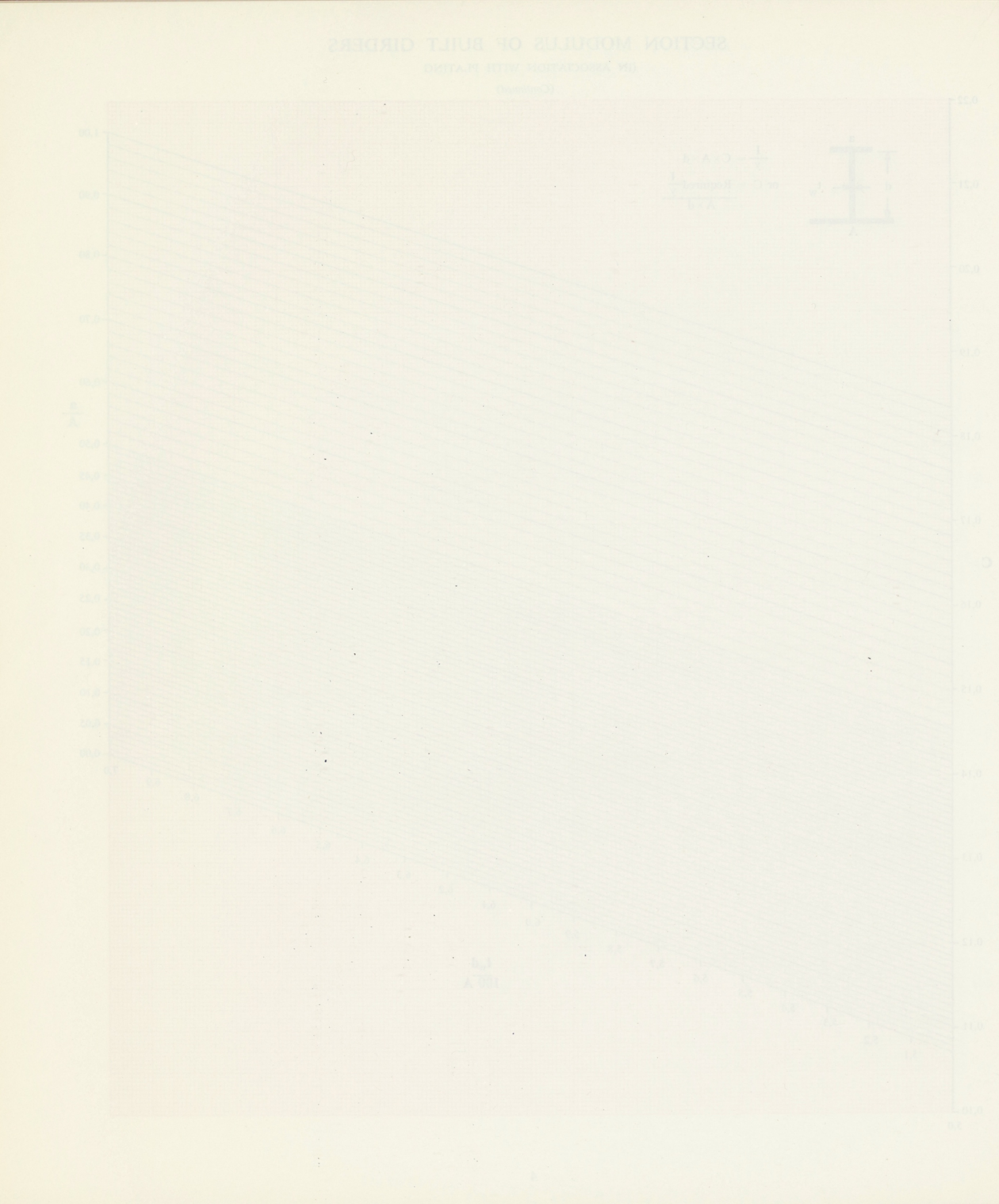


SECTION MODULUS OF BUILT GIRDERS

(IN ASSOCIATION WITH PLATING

(*Continued*)



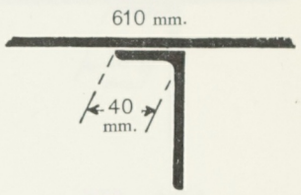


D.I.N. SECTIONS

The particulars given in the following plates are based on D.I.N. standards. They have been extended in some cases to cover sections of similar shape rolled in other than the standard thicknesses

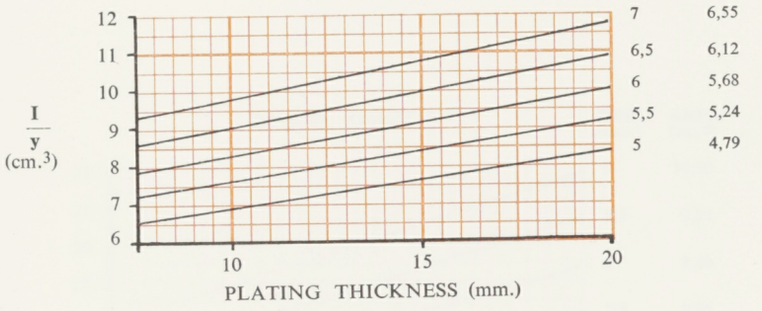
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



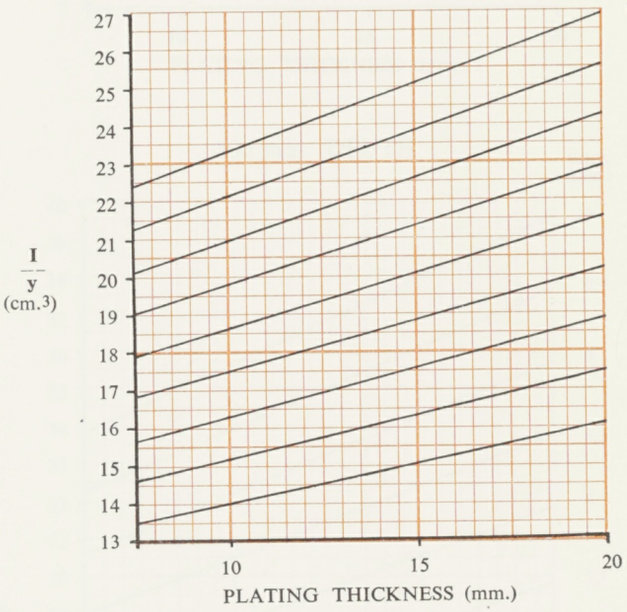
40 mm. FLANGE

60 mm. DEPTH

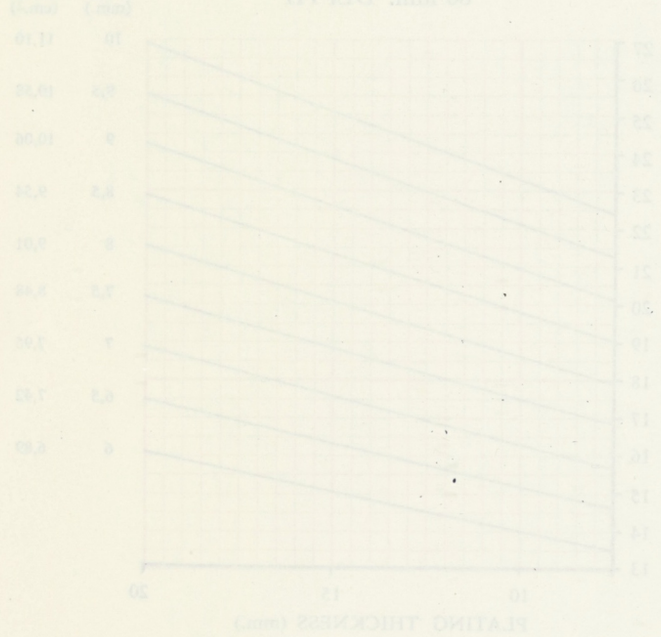


WEB (mm.)	AREA (cm.2)
7	6,55
6,5	6,12
6	5,68
5,5	5,24
5	4,79

80 mm. DEPTH

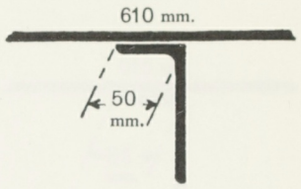


WEB (mm.)	AREA (cm.2)
10	11,10
9,5	10,58
9	10,06
8,5	9,54
8	9,01
7,5	8,48
7	7,95
6,5	7,42
6	6,89



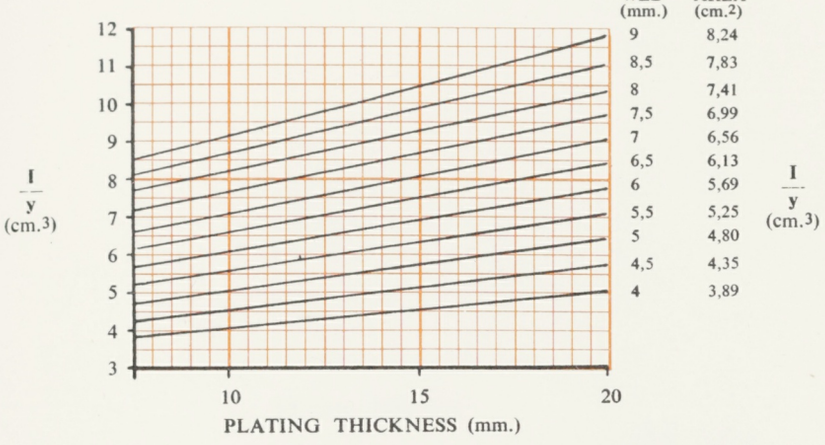
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



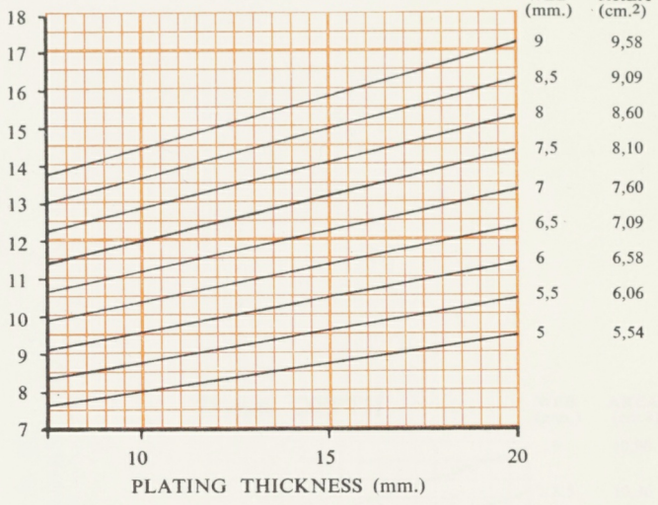
50 mm. FLANGE

50 mm. DEPTH



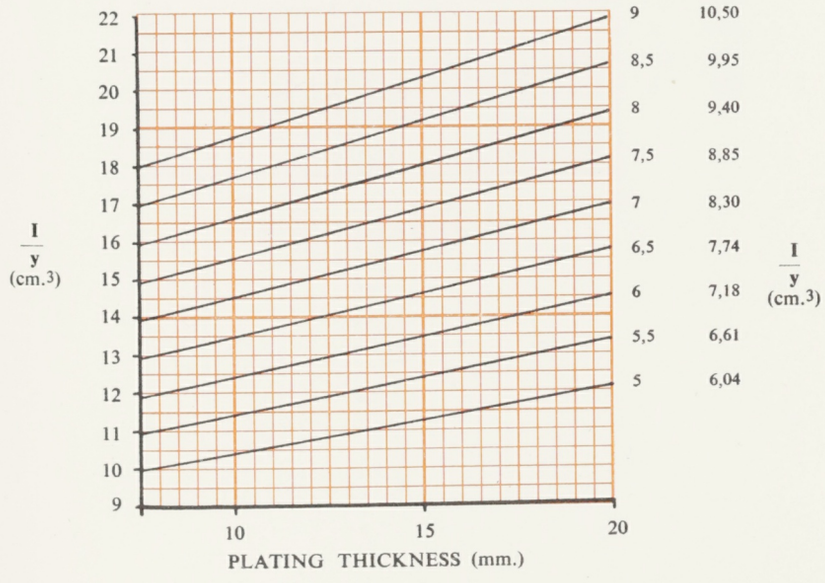
WEB (mm.)	AREA (cm.2)
9	8,24
8,5	7,83
8	7,41
7,5	6,99
7	6,56
6,5	6,13
6	5,69
5,5	5,25
5	4,80
4,5	4,35
4	3,89

65 mm. DEPTH



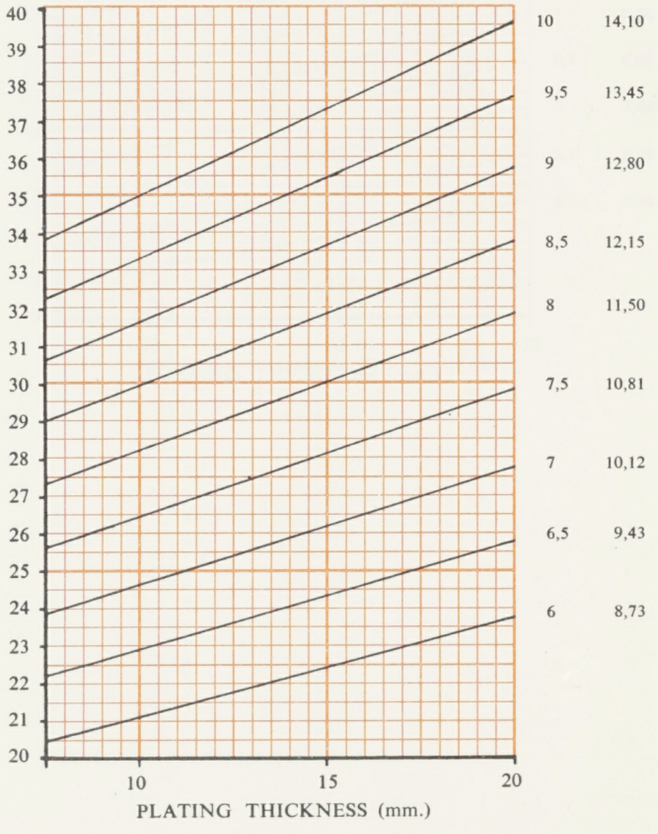
WEB (mm.)	AREA (cm.2)
9	9,58
8,5	9,09
8	8,60
7,5	8,10
7	7,60
6,5	7,09
6	6,58
5,5	6,06
5	5,54

75 mm. DEPTH



WEB (mm.)	AREA (cm.2)
9	10,50
8,5	9,95
8	9,40
7,5	8,85
7	8,30
6,5	7,74
6	7,18
5,5	6,61
5	6,04

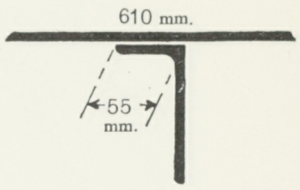
100 mm. DEPTH



WEB (mm.)	AREA (cm.2)
10	14,10
9,5	13,45
9	12,80
8,5	12,15
8	11,50
7,5	10,81
7	10,12
6,5	9,43
6	8,73

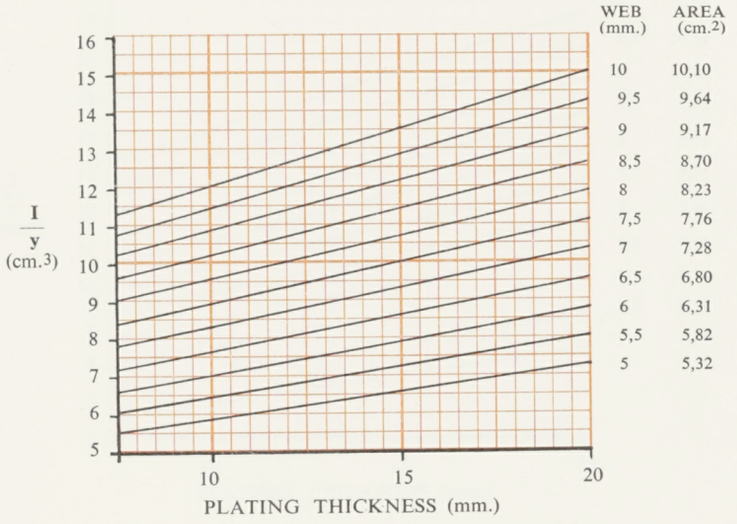
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



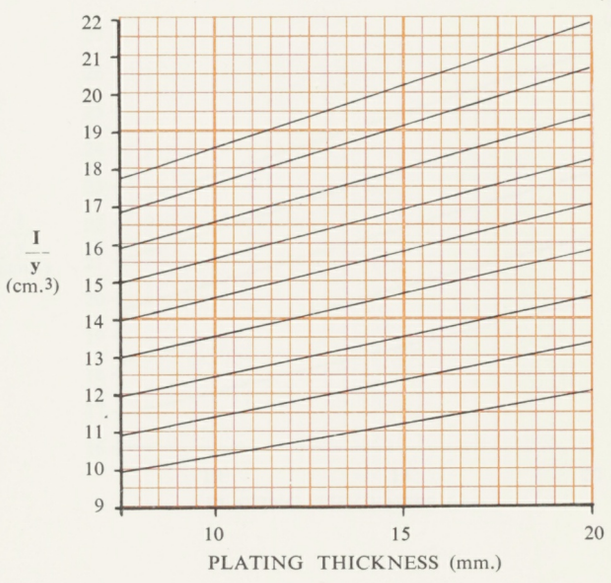
55 mm. FLANGE

55 mm. DEPTH



WEB (mm.)	AREA (cm.2)
10	10,10
9,5	9,64
9	9,17
8,5	8,70
8	8,23
7,5	7,76
7	7,28
6,5	6,80
6	6,31
5,5	5,82
5	5,32

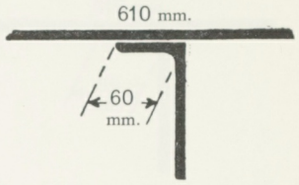
75 mm. DEPTH



WEB (mm.)	AREA (cm.2)
9	10,90
8,5	10,36
8	9,81
7,5	9,24
7	8,66
6,5	8,08
6	7,49
5,5	6,90
5	6,30

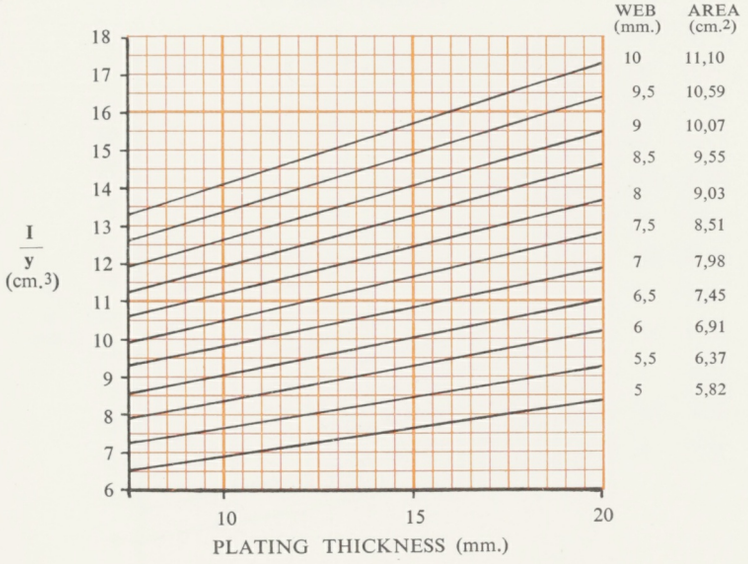
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



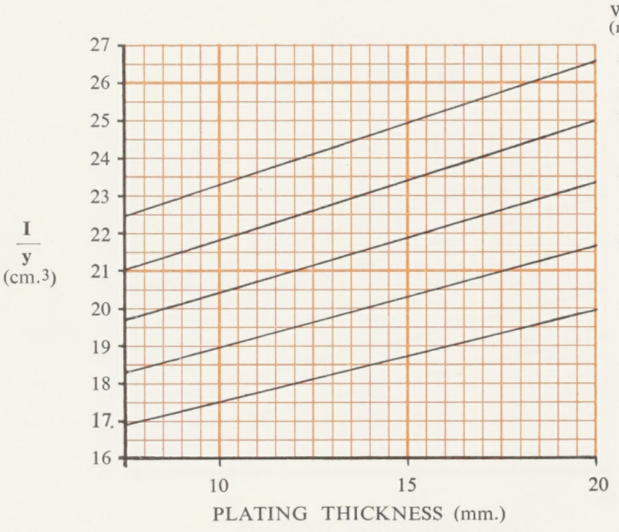
60 mm. FLANGE

60 mm. DEPTH

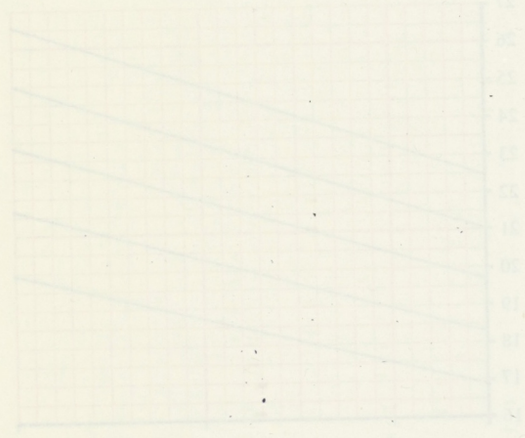


WEB (mm.)	AREA (cm.2)
10	11,10
9,5	10,59
9	10,07
8,5	9,55
8	9,03
7,5	8,51
7	7,98
6,5	7,45
6	6,91
5,5	6,37
5	5,82

90 mm. DEPTH

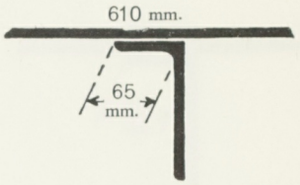


WEB (mm.)	AREA (cm.2)
8	11,40
7,5	10,76
7	10,10
6,5	9,40
6	8,69



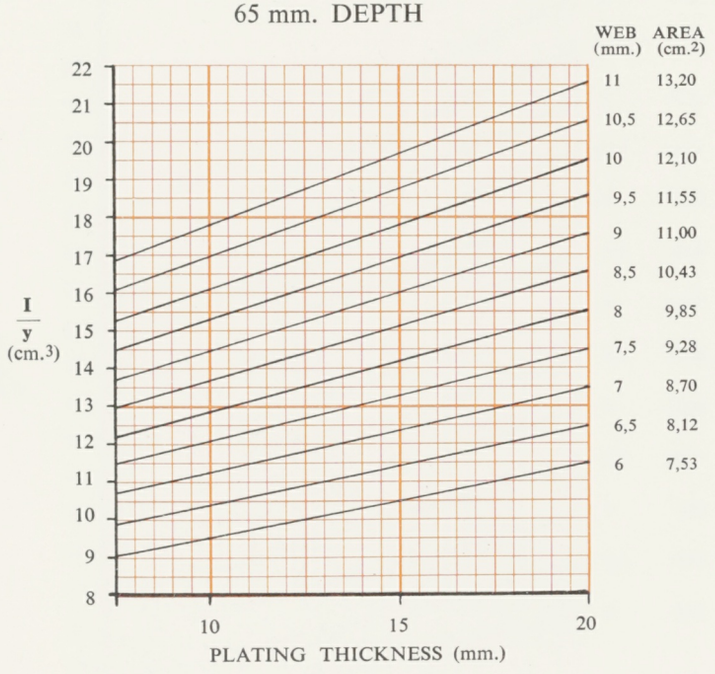
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

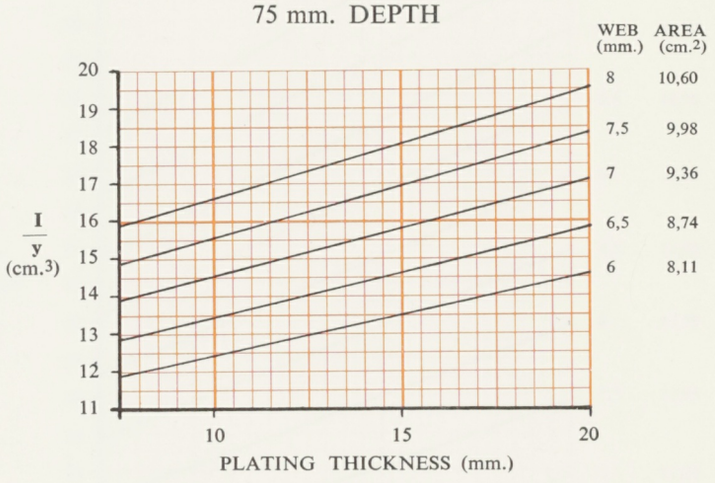


65 mm. FLANGE

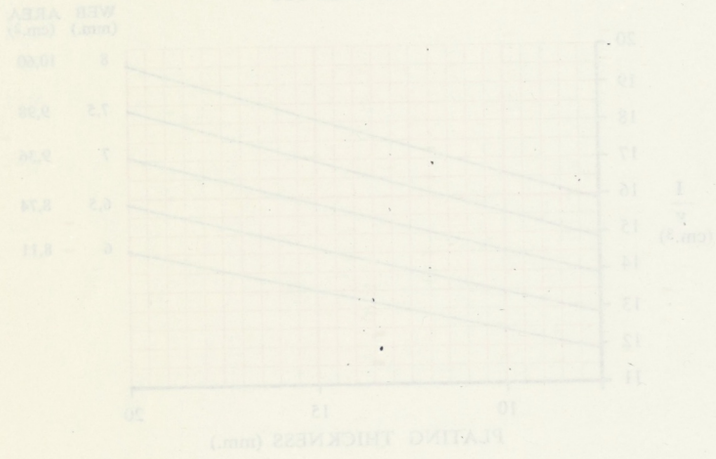
65 mm. DEPTH

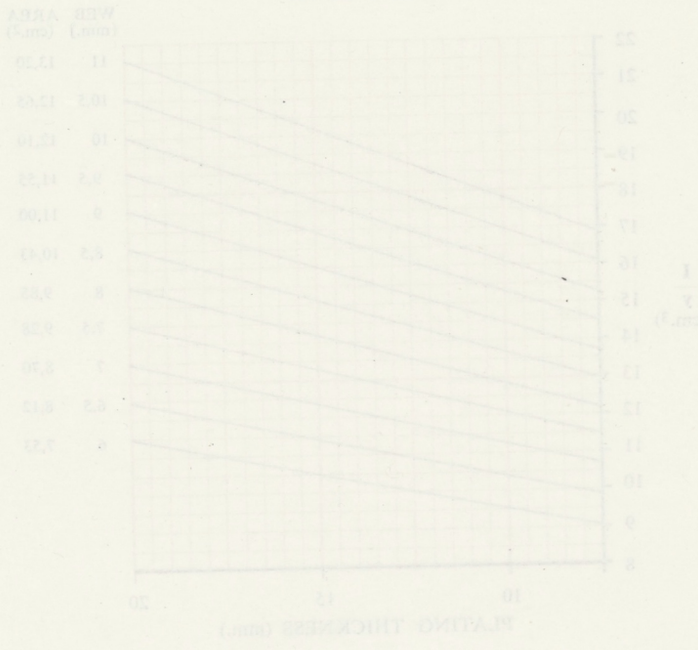


75 mm. DEPTH



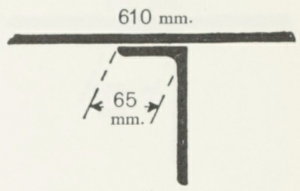
610 mm.
65 mm.





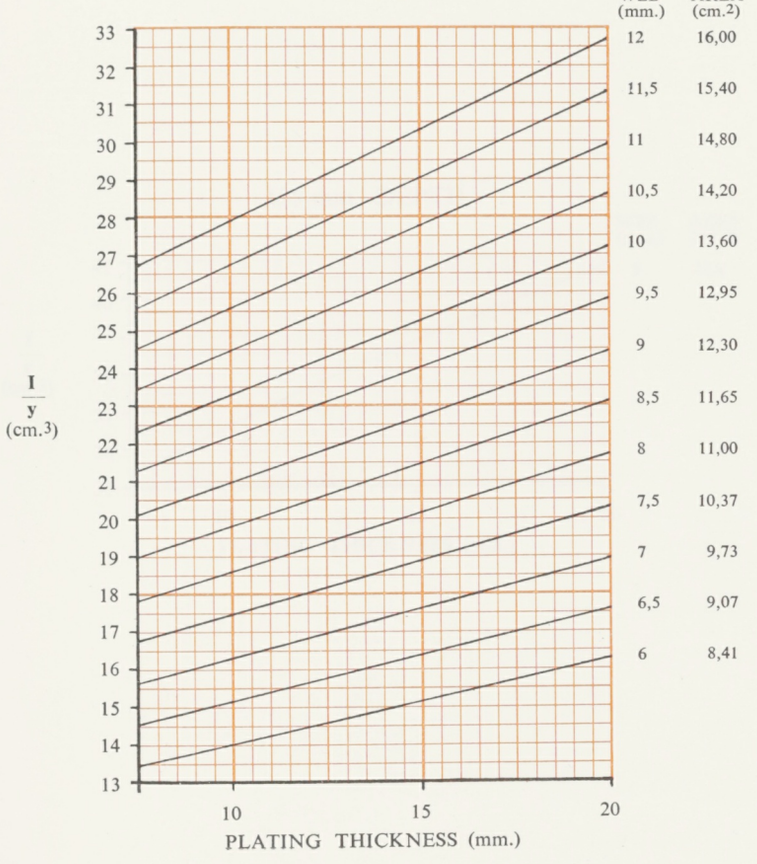
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



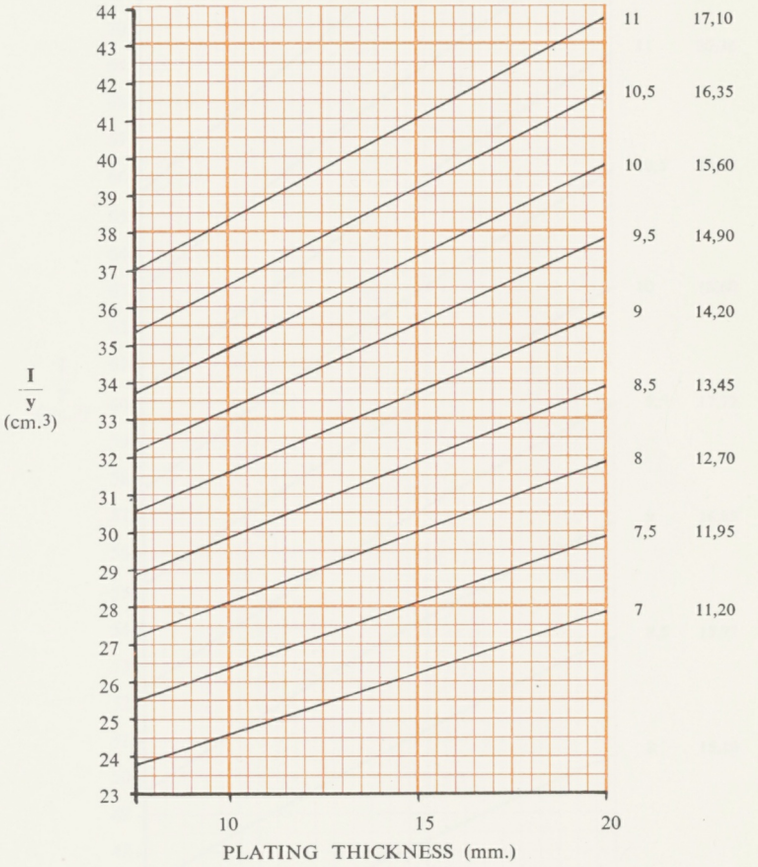
65 mm. FLANGE

80 mm. DEPTH

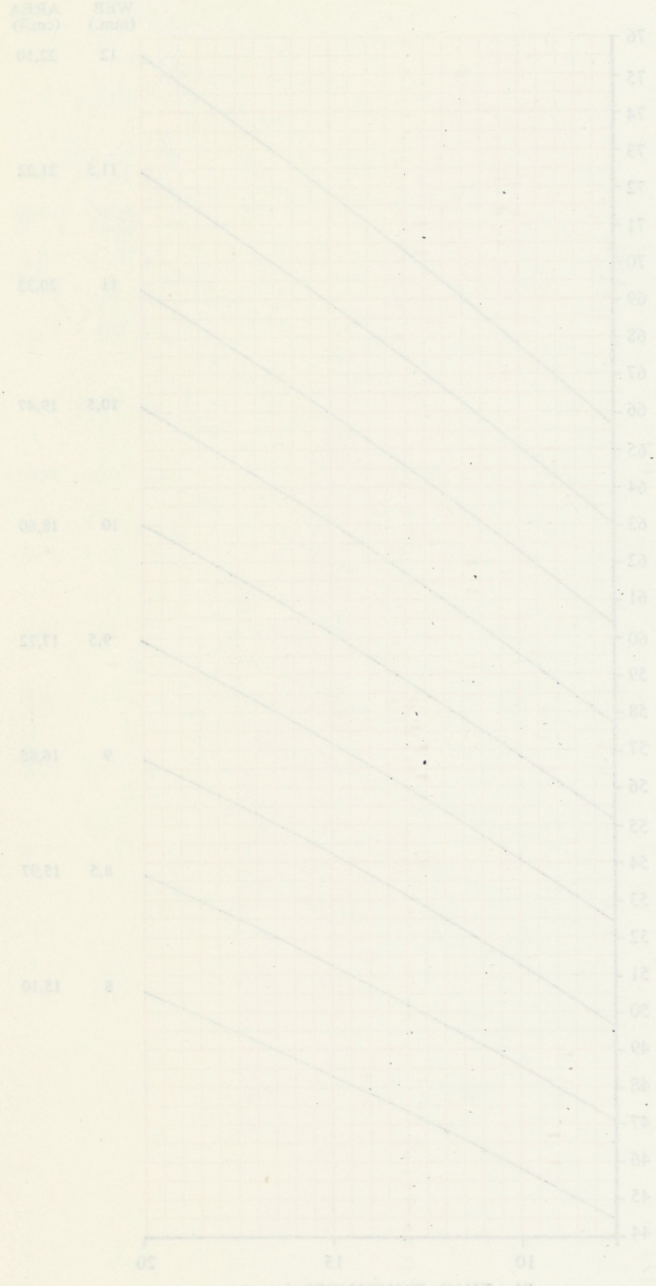


WEB (mm.)	AREA (cm.2)
12	16,00
11,5	15,40
11	14,80
10,5	14,20
10	13,60
9,5	12,95
9	12,30
8,5	11,65
8	11,00
7,5	10,37
7	9,73
6,5	9,07
6	8,41

100 mm. DEPTH

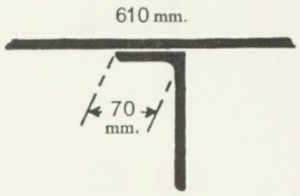


WEB (mm.)	AREA (cm.2)
11	17,10
10,5	16,35
10	15,60
9,5	14,90
9	14,20
8,5	13,45
8	12,70
7,5	11,95
7	11,20



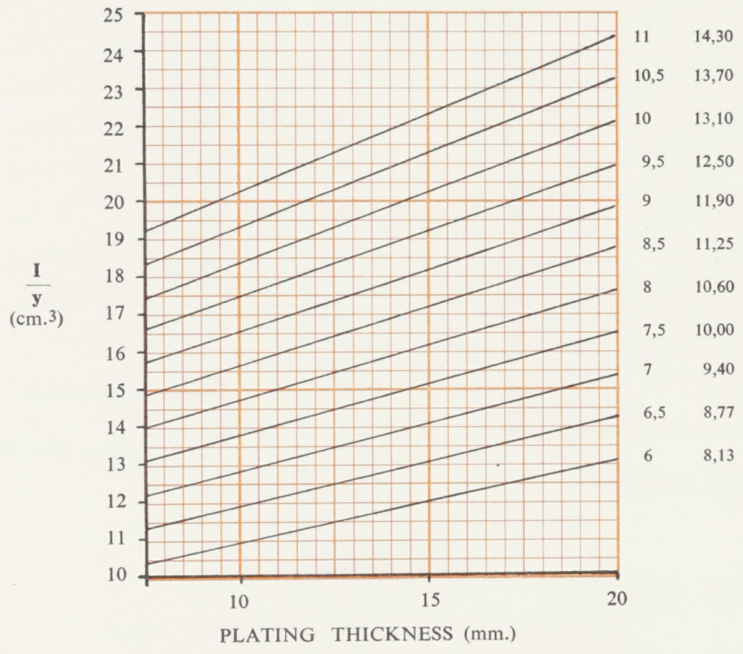
SECTION MODULUS AND AREA OF ORDINARY ANGLES

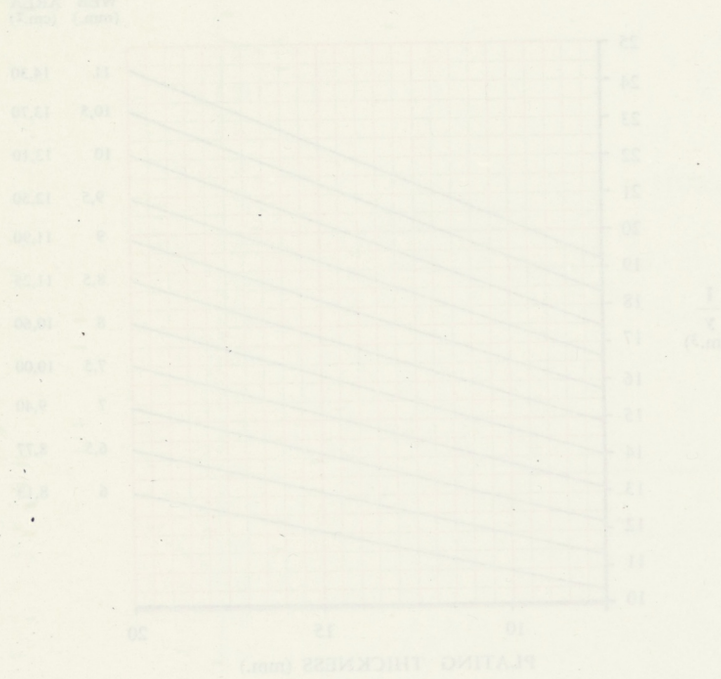
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



70 mm. FLANGE

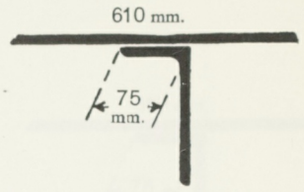
70 mm. DEPTH





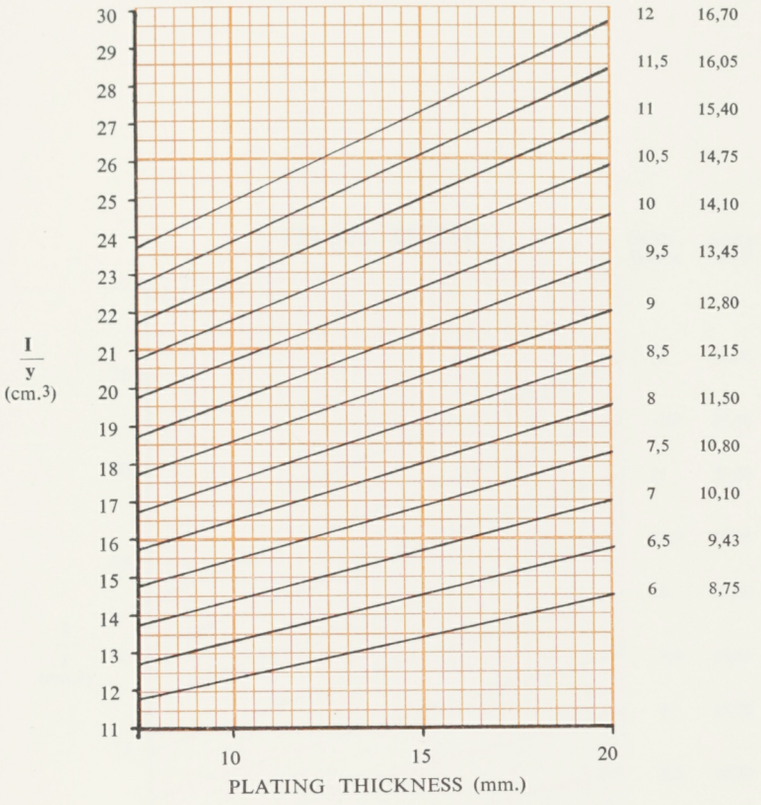
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



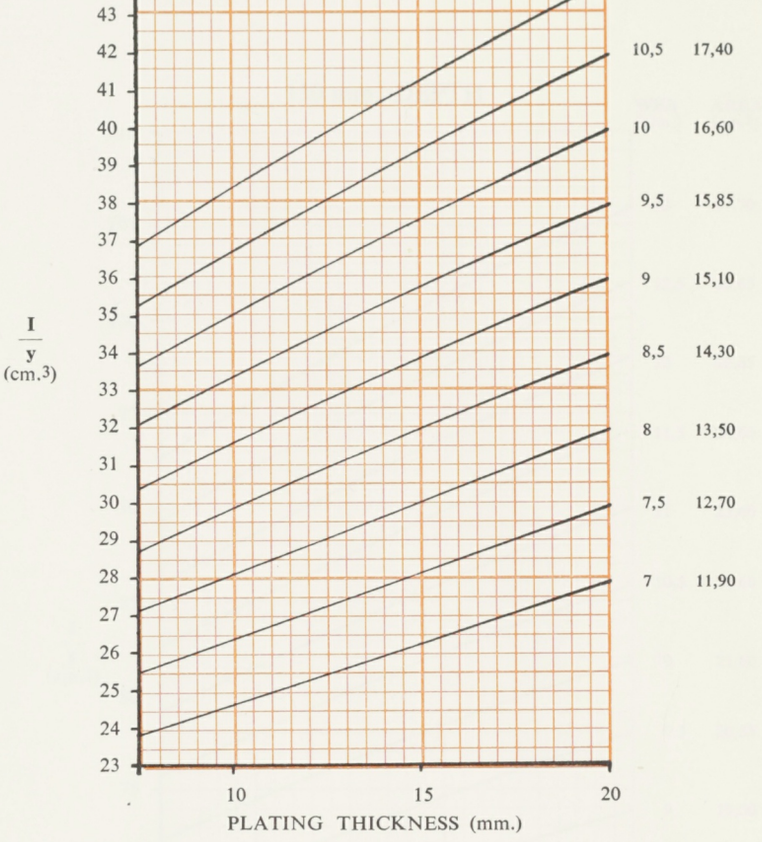
75 mm. FLANGE

75 mm. DEPTH



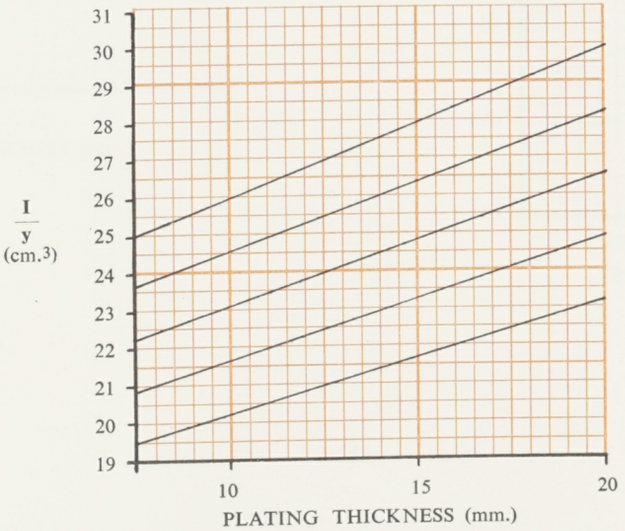
WEB (mm.)	AREA (cm.2)
12	16,70
11,5	16,05
11	15,40
10,5	14,75
10	14,10
9,5	13,45
9	12,80
8,5	12,15
8	11,50
7,5	10,80
7	10,10
6,5	9,43
6	8,75

100 mm. DEPTH

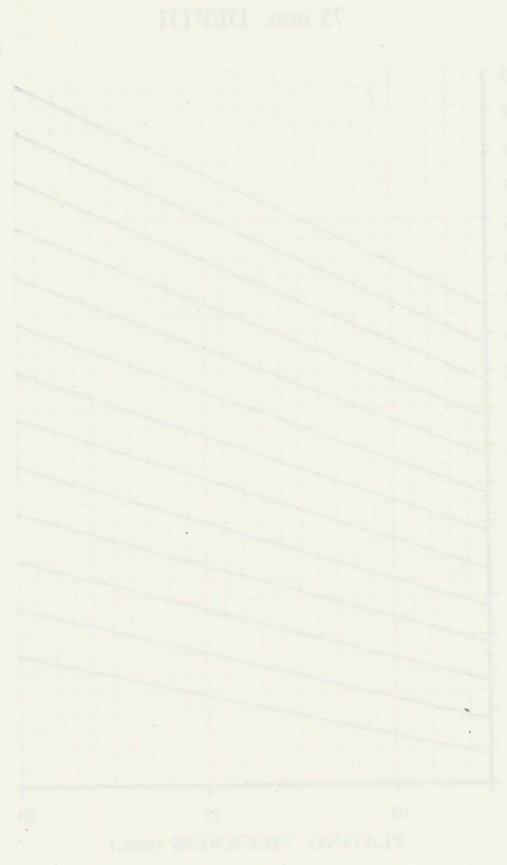


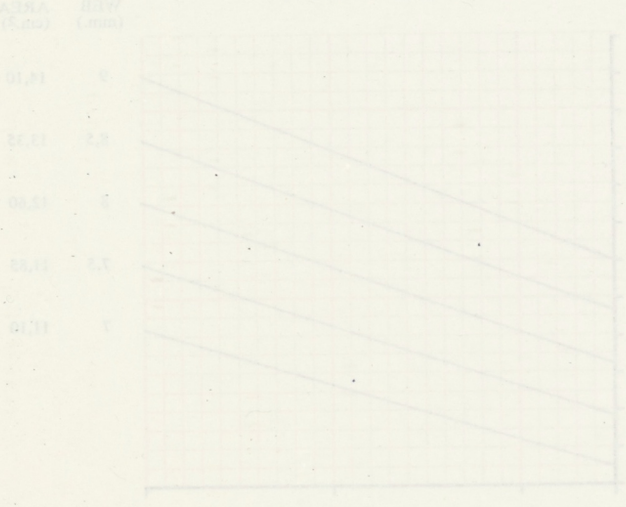
WEB (mm.)	AREA (cm.2)
11	18,20
10,5	17,40
10	16,60
9,5	15,85
9	15,10
8,5	14,30
8	13,50
7,5	12,70
7	11,90

90 mm. DEPTH



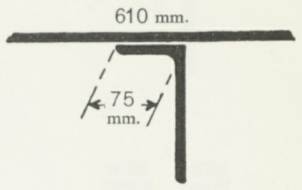
WEB (mm.)	AREA (cm.2)
9	14,10
8,5	13,35
8	12,60
7,5	11,85
7	11,10





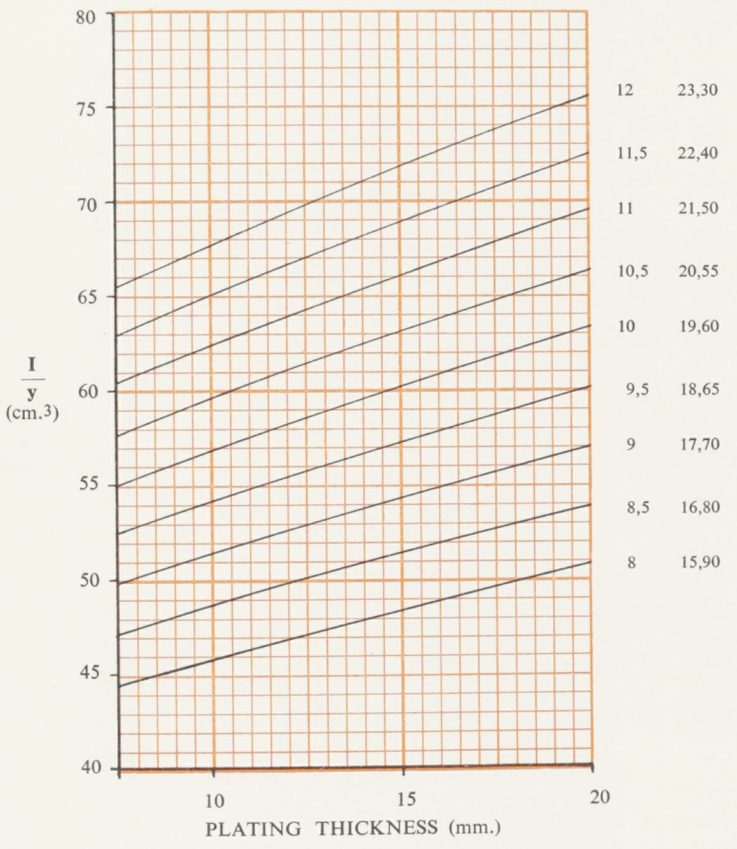
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



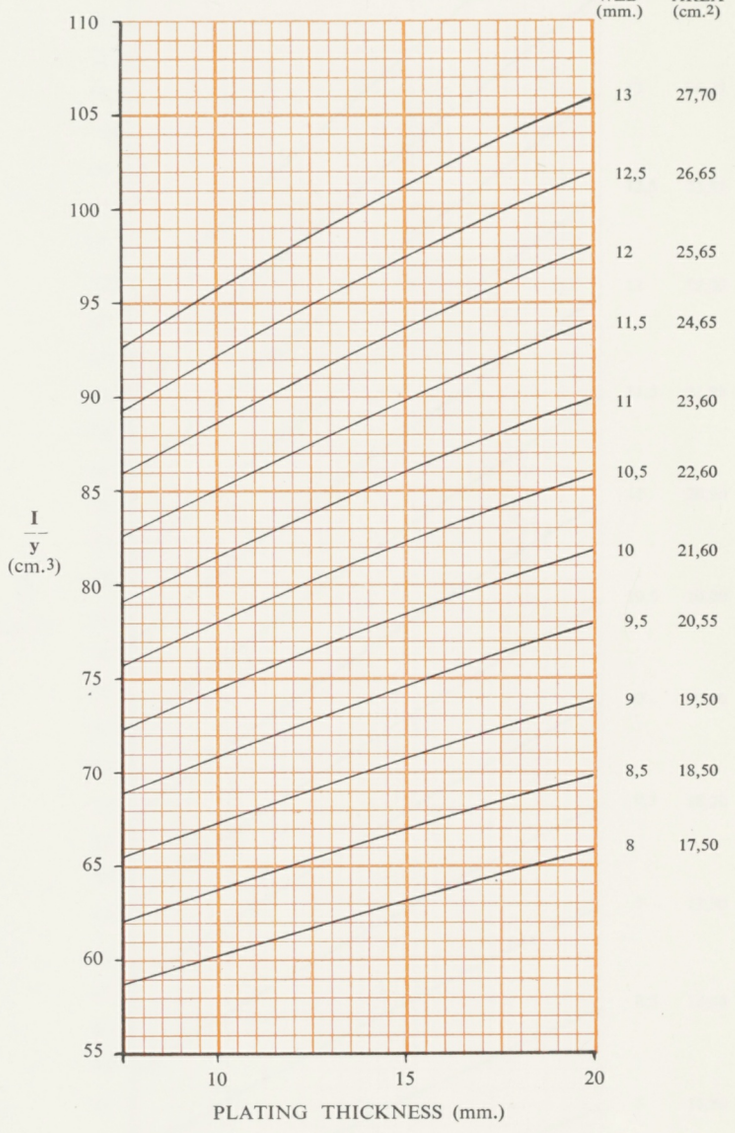
75 mm. FLANGE

130 mm. DEPTH

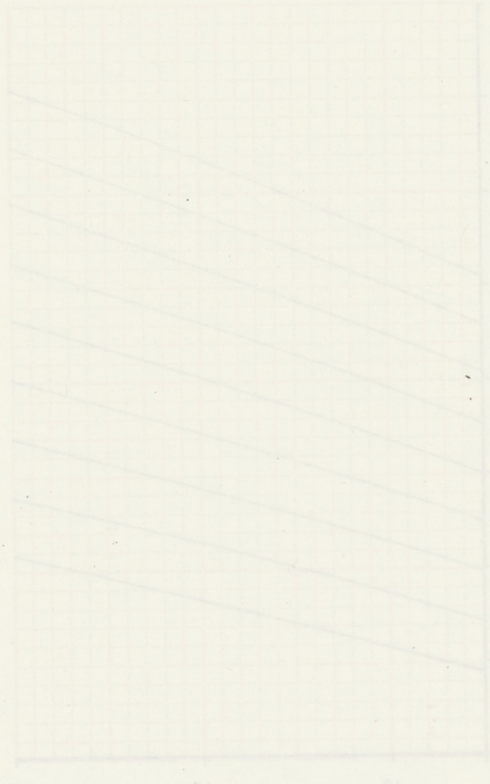


WEB (mm.)	AREA (cm.2)
12	23,30
11,5	22,40
11	21,50
10,5	20,55
10	19,60
9,5	18,65
9	17,70
8,5	16,80
8	15,90

150 mm. DEPTH

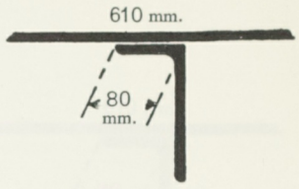


WEB (mm.)	AREA (cm.2)
13	27,70
12,5	26,65
12	25,65
11,5	24,65
11	23,60
10,5	22,60
10	21,60
9,5	20,55
9	19,50
8,5	18,50
8	17,50



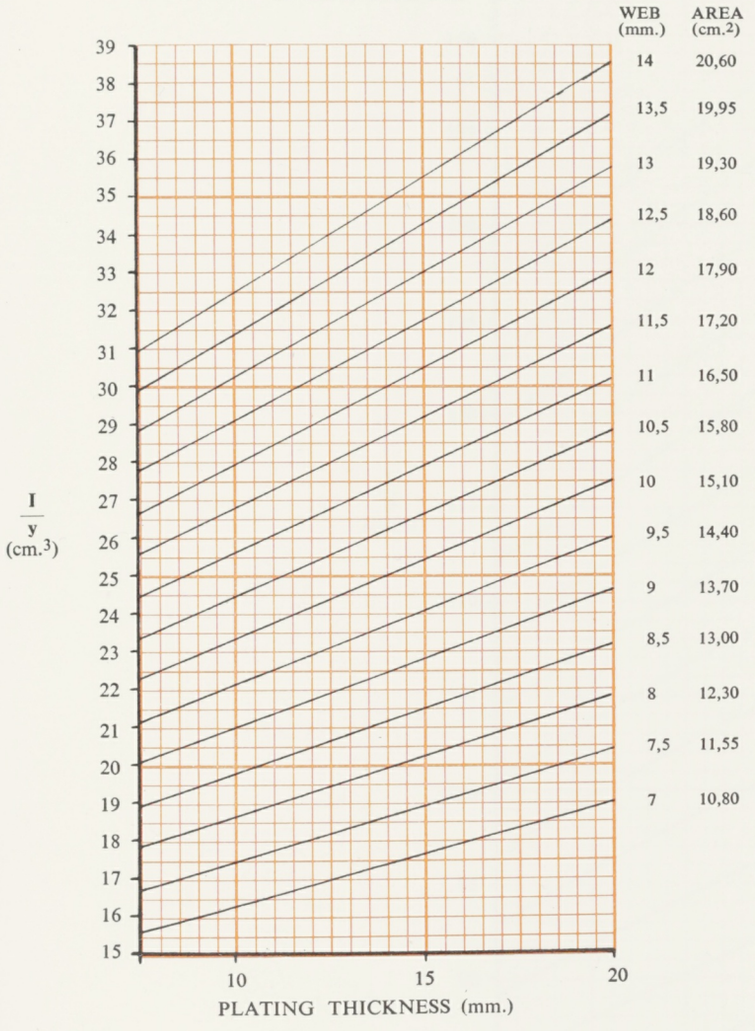
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

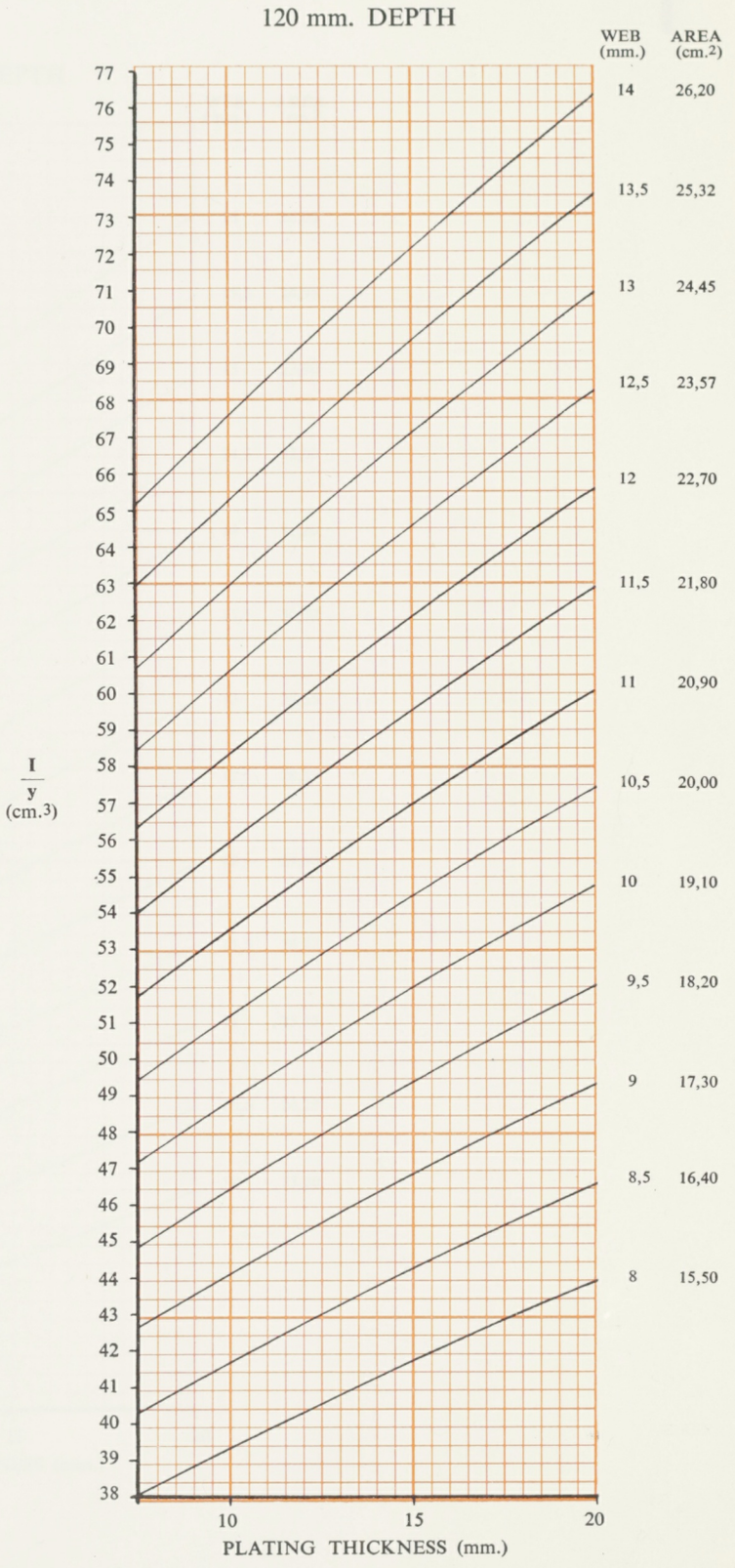


80 mm. FLANGE

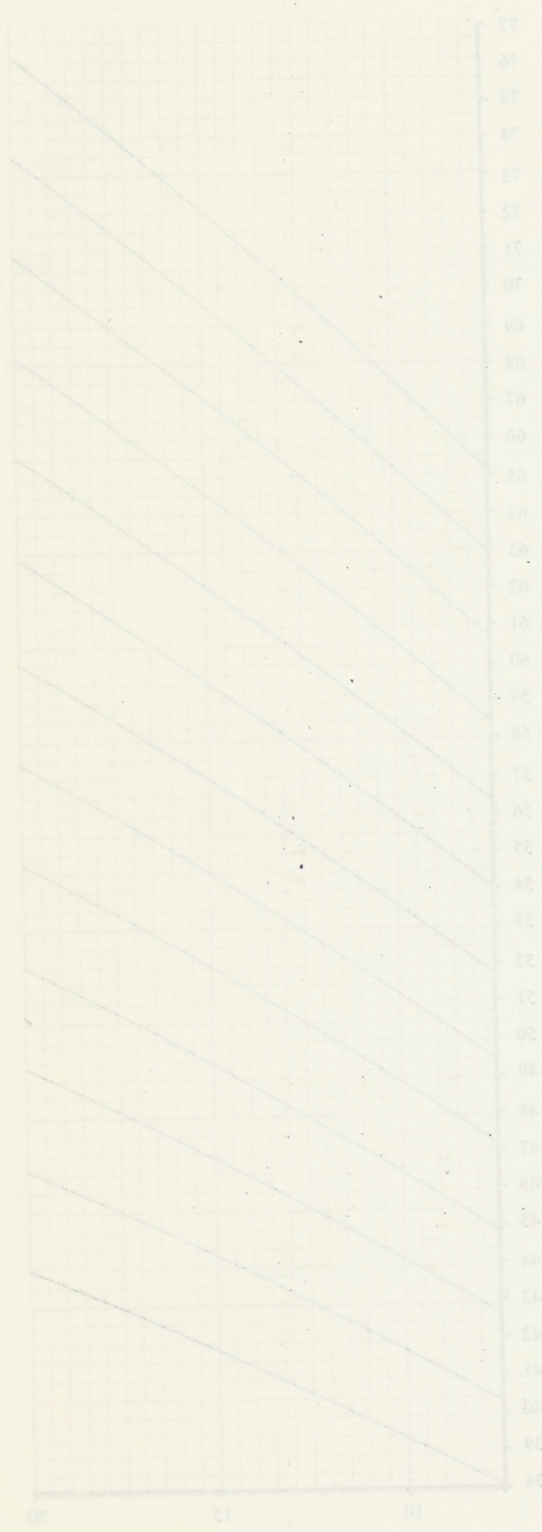
80 mm. DEPTH



120 mm. DEPTH

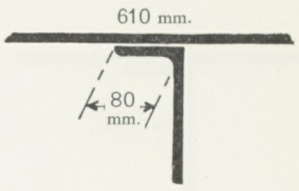


120 mm. DEPTH



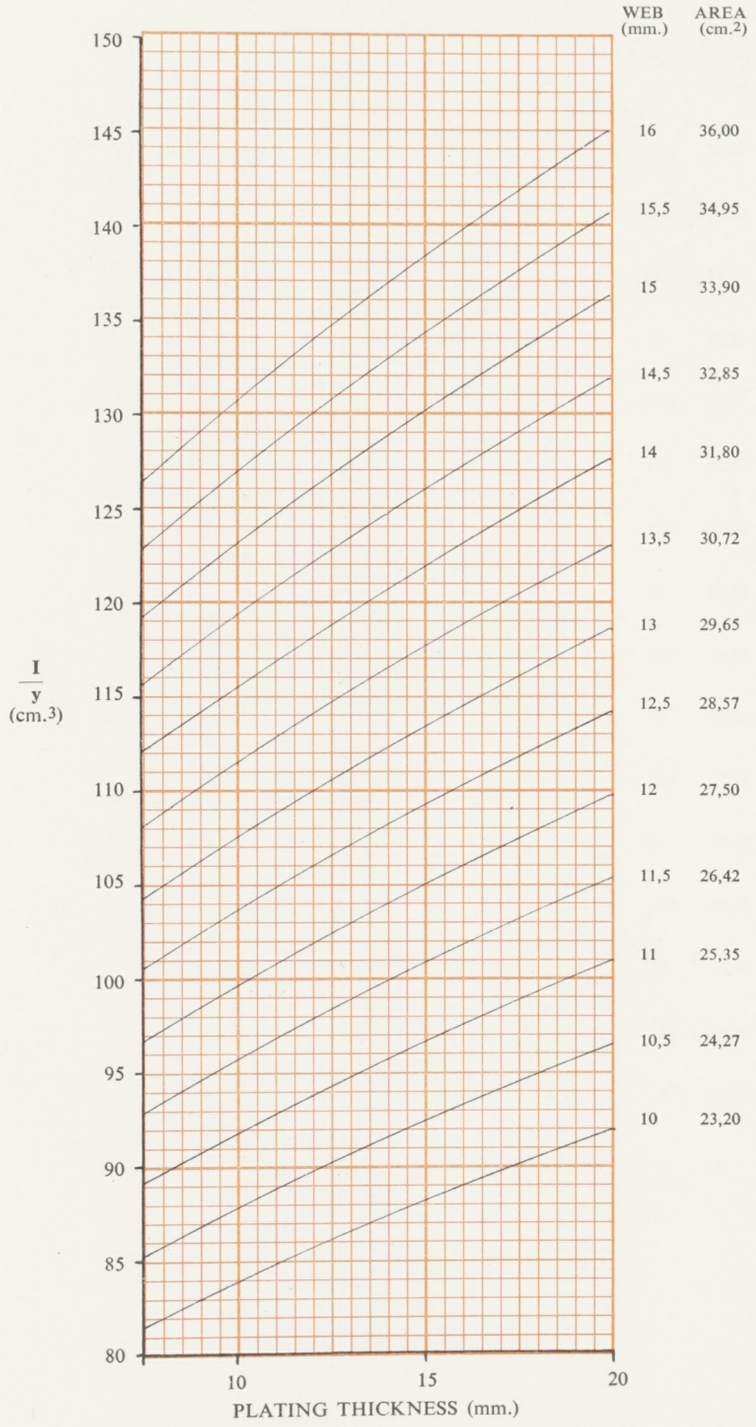
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



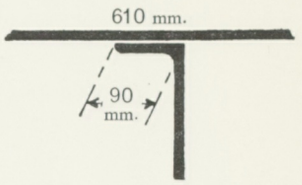
80 mm. FLANGE

160 mm. DEPTH

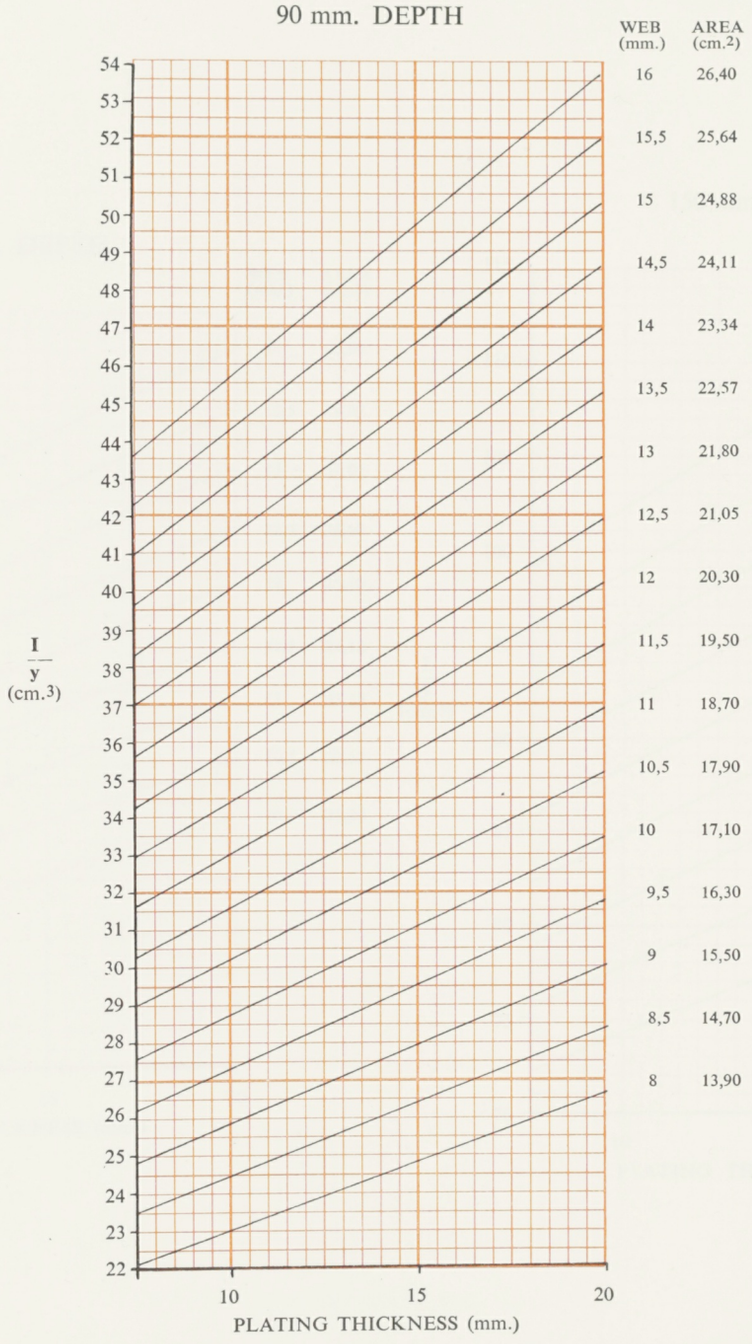


SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

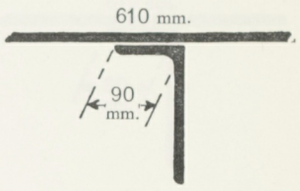


90 mm. FLANGE



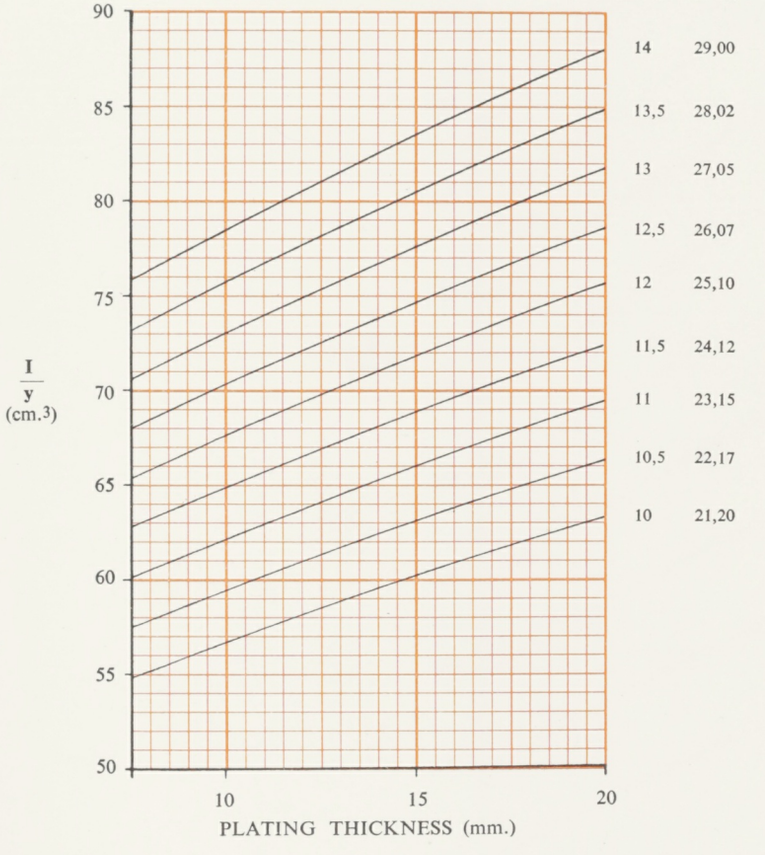
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



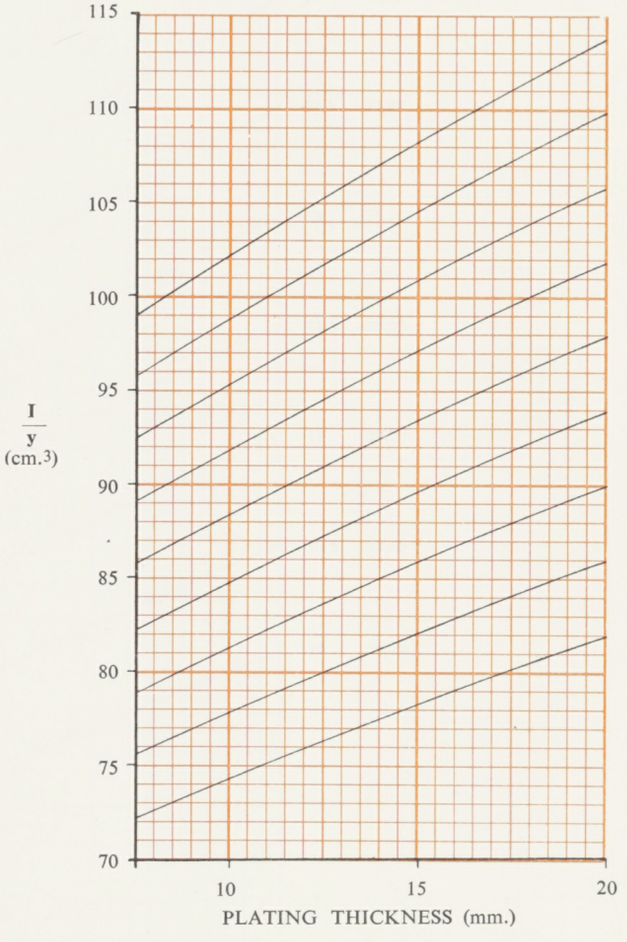
90 mm. FLANGE

130 mm. DEPTH



WEB (mm.)	AREA (cm.2)
14	29,00
13,5	28,02
13	27,05
12,5	26,07
12	25,10
11,5	24,12
11	23,15
10,5	22,17
10	21,20

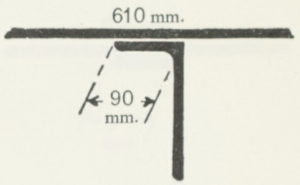
150 mm. DEPTH



WEB (mm.)	AREA (cm.2)
14	31,80
13,5	30,72
13	29,65
12,5	28,57
12	27,50
11,5	26,42
11	25,35
10,5	24,27
10	23,20

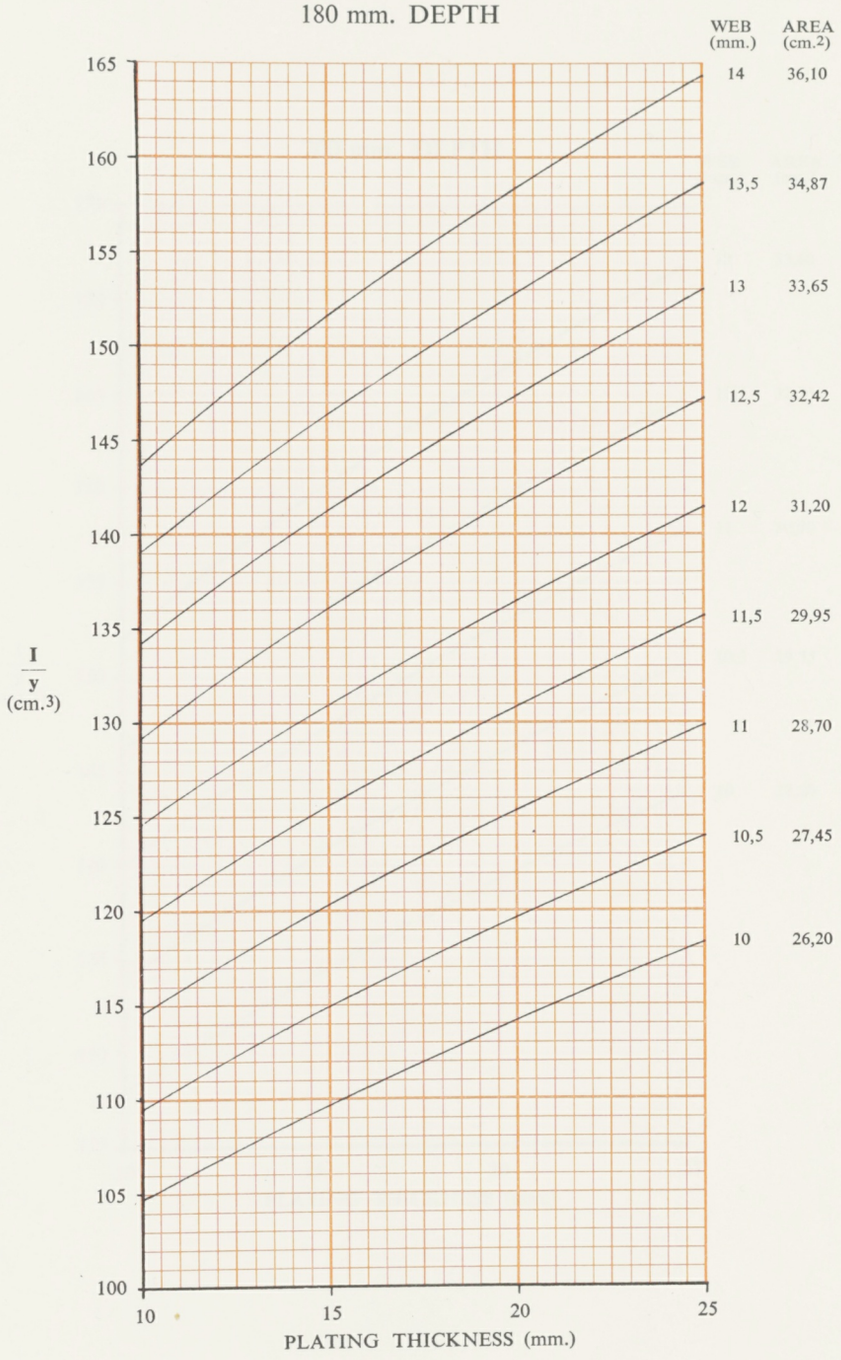
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



90 mm. FLANGE

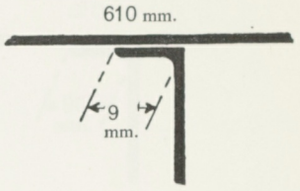
180 mm. DEPTH



610 mm.
90 mm.

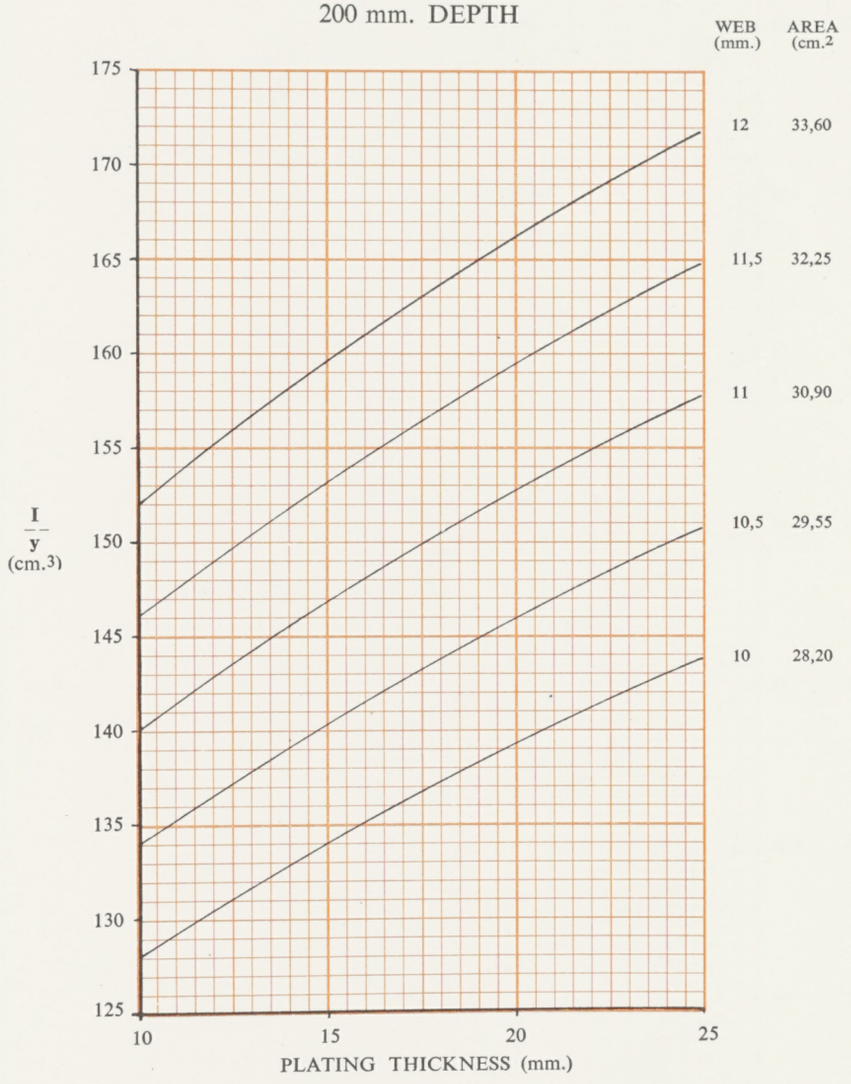
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



90 mm. FLANGE

200 mm. DEPTH

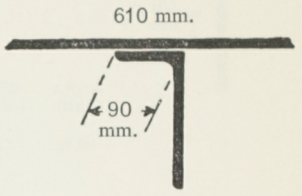


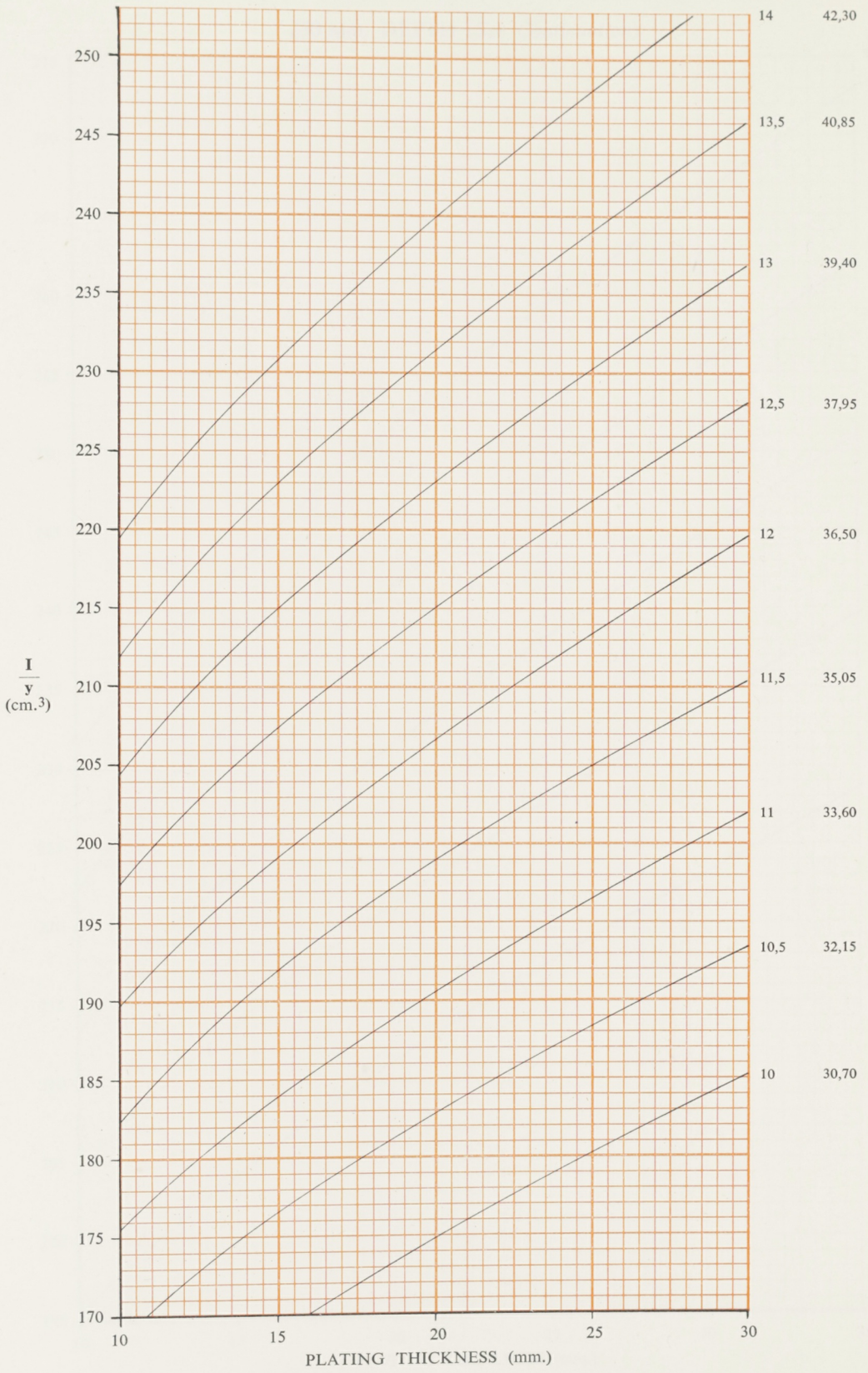
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

90 mm. FLANGE

225 mm. DEPTH

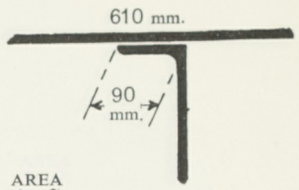




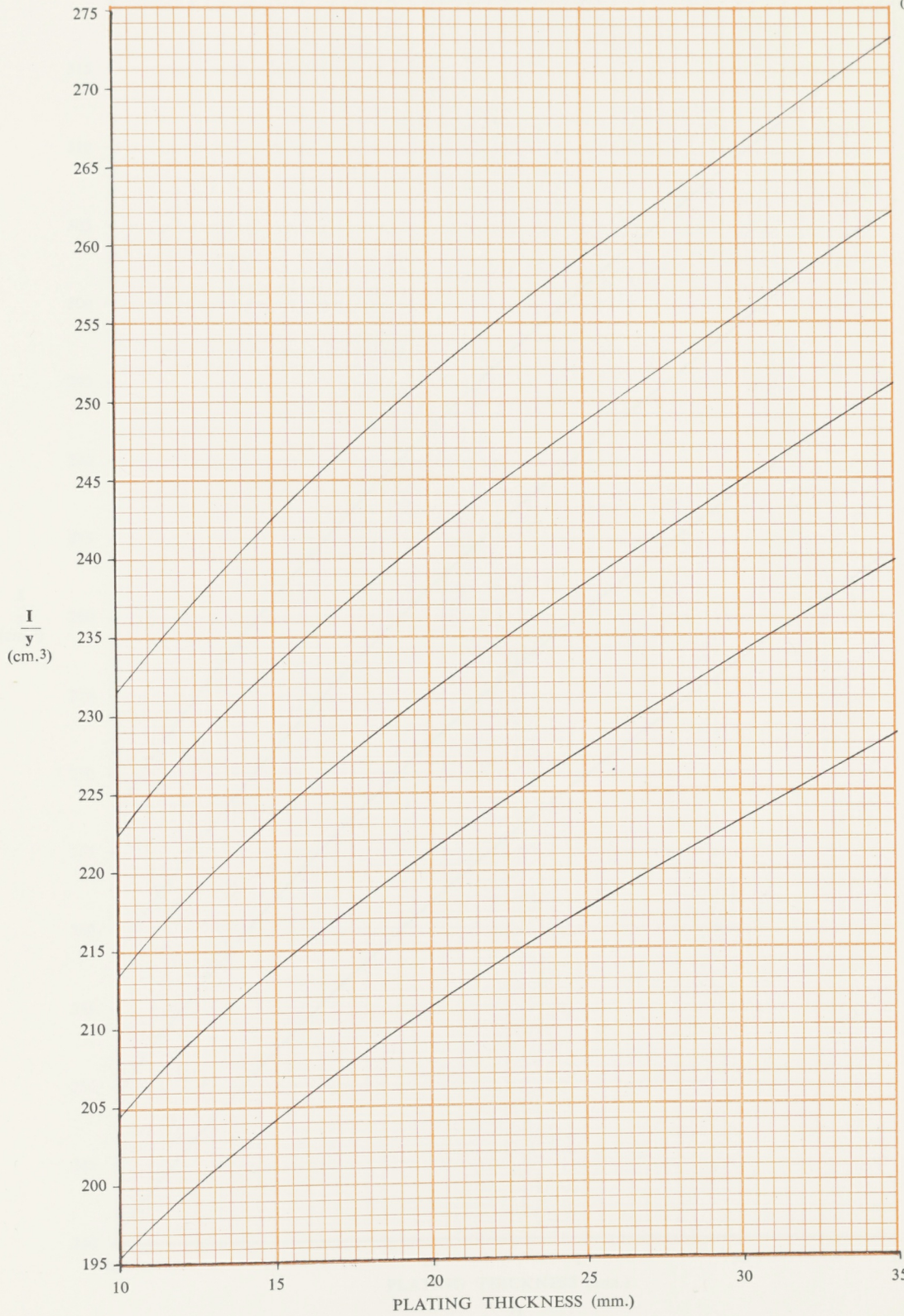
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

90 mm. FLANGE



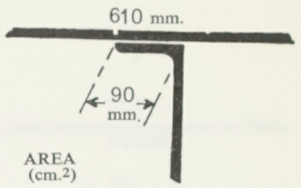
250 mm. DEPTH (*See Continuation*)



WEB (mm.)	AREA (cm.2)
12	39,60
11,5	38,00
11	36,40
10,5	34,80
10	33,20

SECTION MODULUS AND AREA OF ORDINARY ANGLES

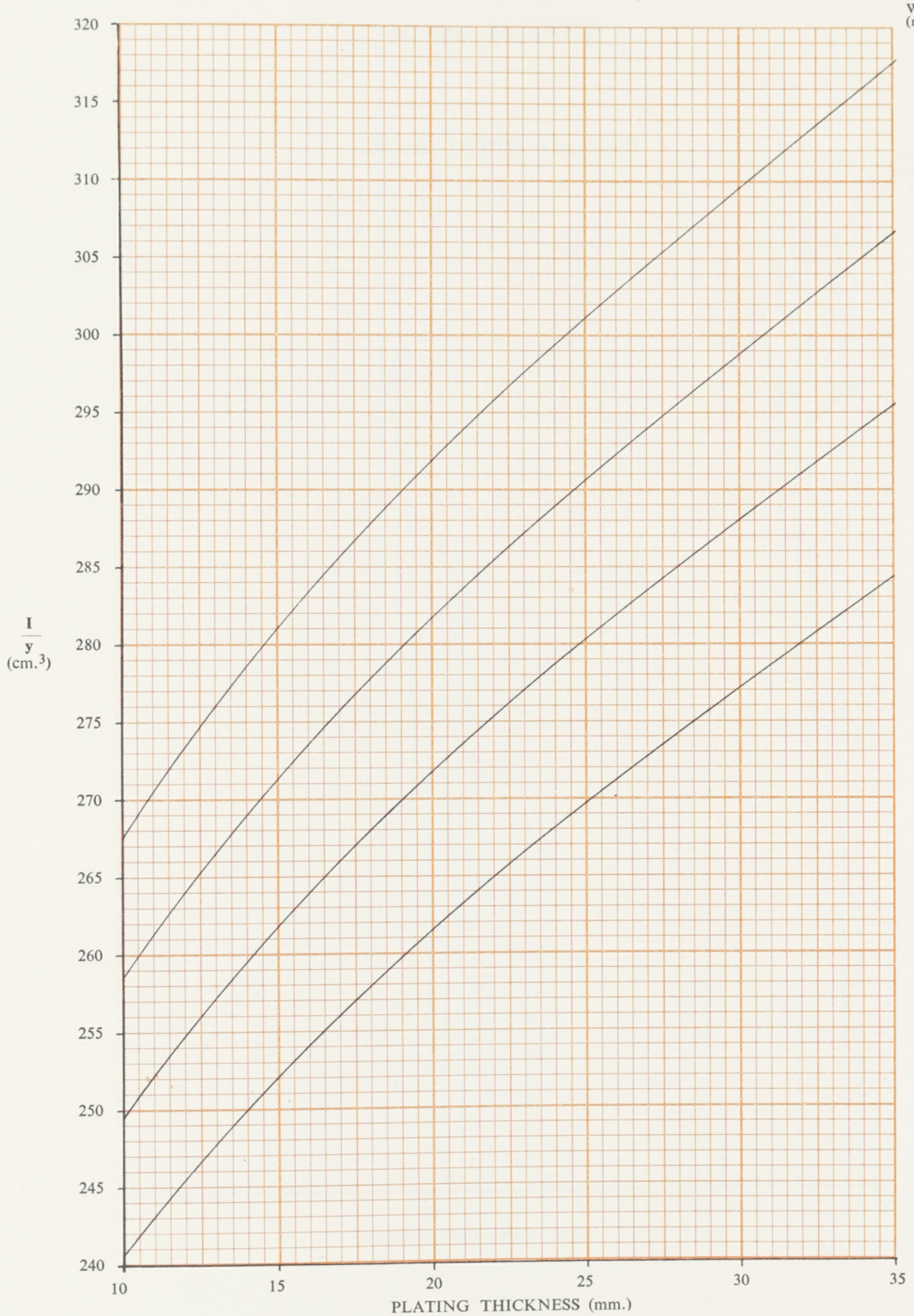
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



90 mm. FLANGE

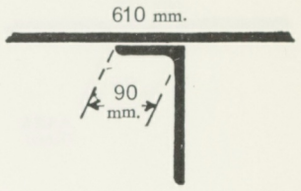
250 mm. DEPTH (*Continued*)

WEB (mm.)	AREA ($cm.^2$)
14	45,90
13,5	44,32
13	42,75
12,5	41,17



SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



90 mm. FLANGE

250 mm. DEPTH (*Continued*)

WEB (mm.)	AREA ($cm.^2$)
15	49,00
14,5	47,45

$\frac{I}{y}$ ($cm.^3$)

340
335
330
325
320
315
310
305
300
295
290
285
280
275

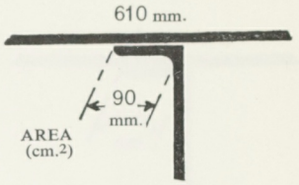
10 15 20 25 30 35

PLATING THICKNESS (mm.)

SECTION MODULUS AND AREA OF ORDINARY ANGLES

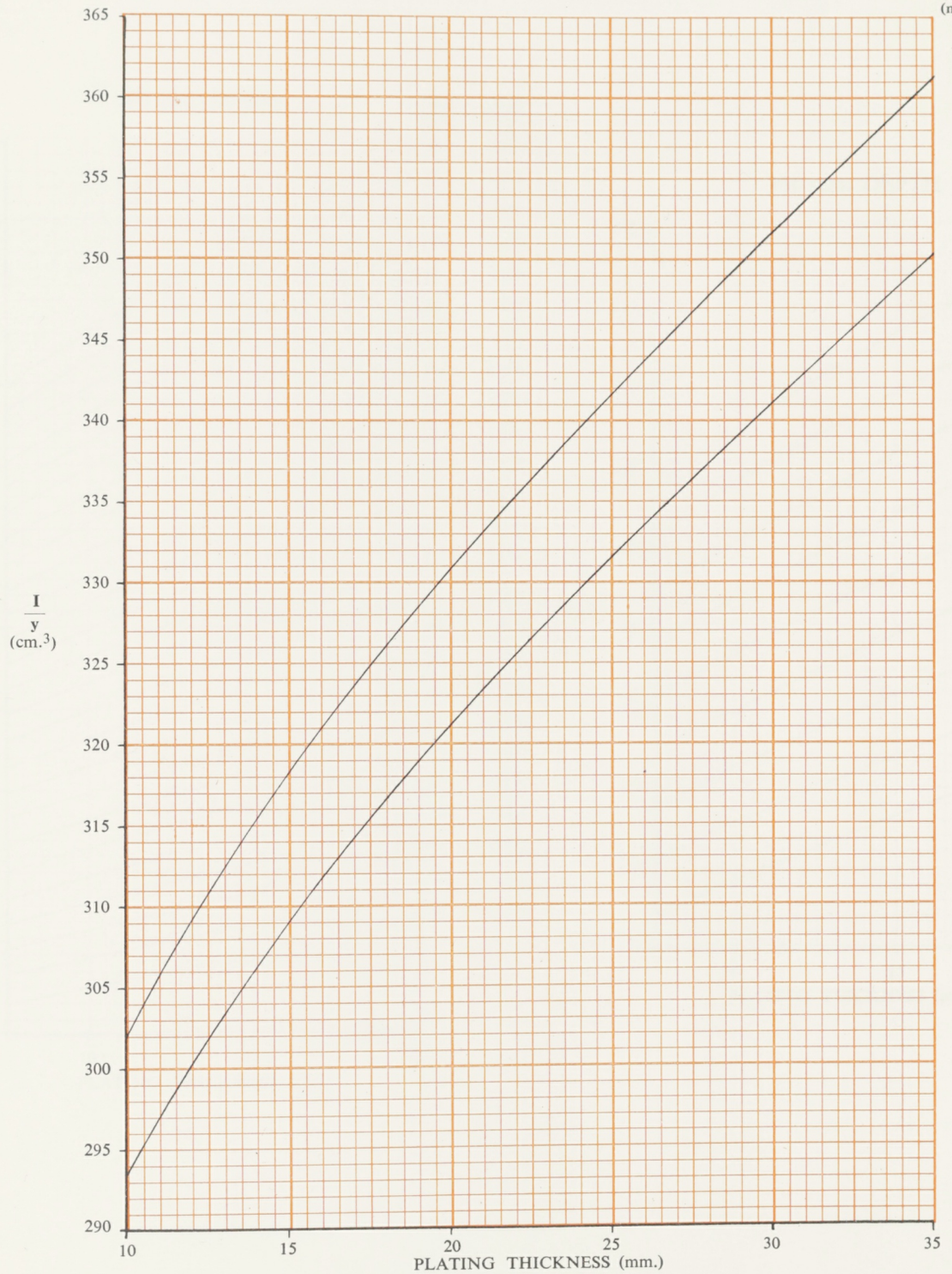
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

90 mm. FLANGE



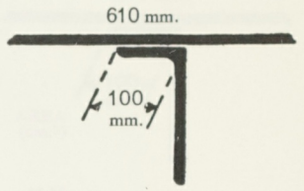
250 mm. DEPTH (*Concluded*)

WEB (mm.)	AREA ($cm.^2$)
16	52,10
15,5	50,55



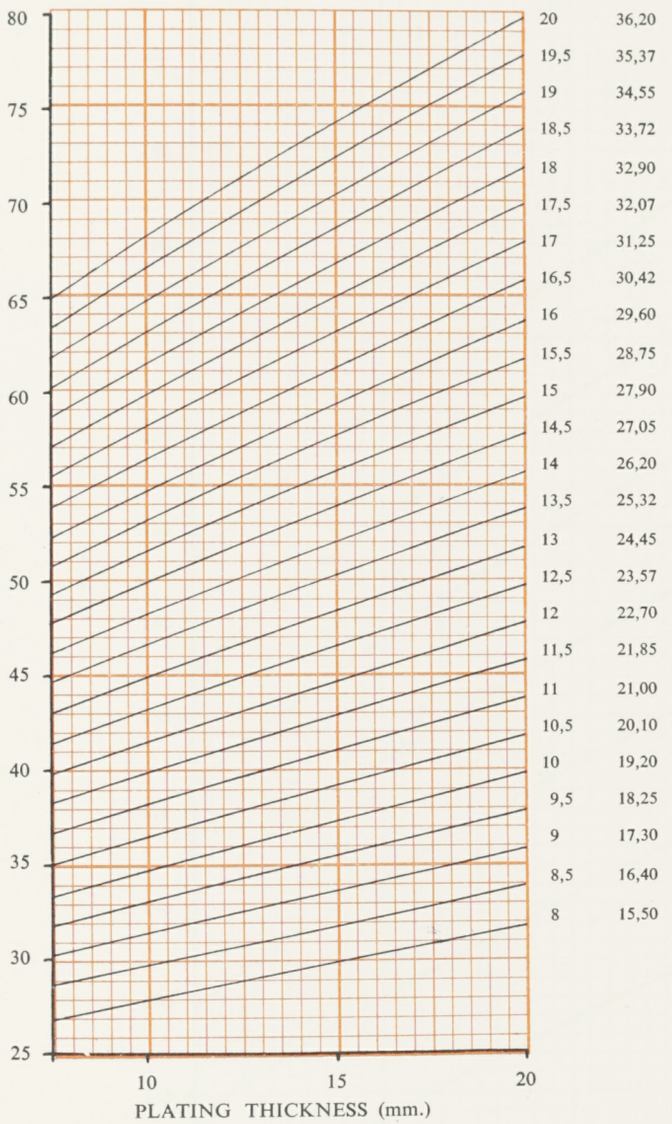
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



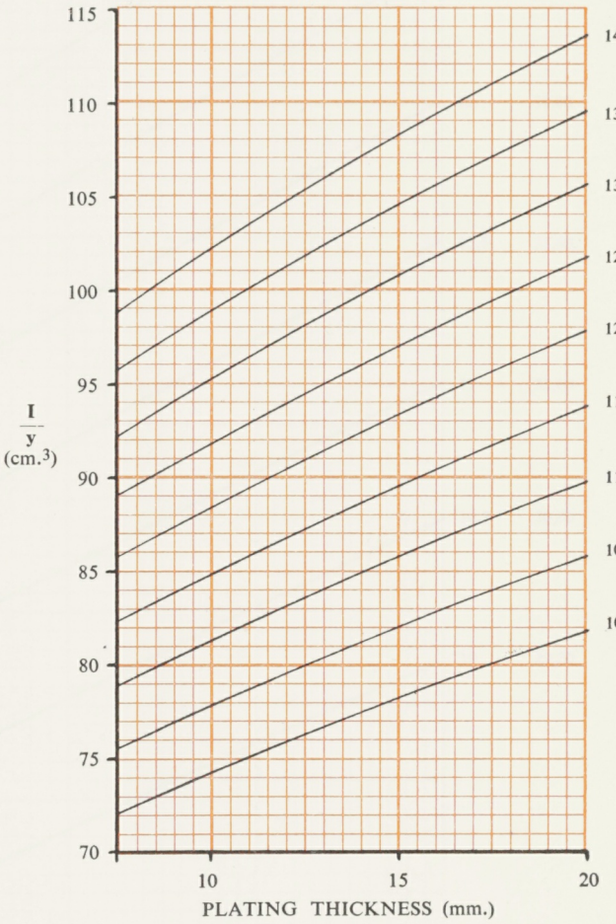
100 mm. FLANGE

100 mm. DEPTH



WEB (mm.)	AREA (cm.2)
20	36,20
19,5	35,37
19	34,55
18,5	33,72
18	32,90
17,5	32,07
17	31,25
16,5	30,42
16	29,60
15,5	28,75
15	27,90
14,5	27,05
14	26,20
13,5	25,32
13	24,45
12,5	23,57
12	22,70
11,5	21,85
11	21,00
10,5	20,10
10	19,20
9,5	18,25
9	17,30
8,5	16,40
8	15,50

150 mm. DEPTH



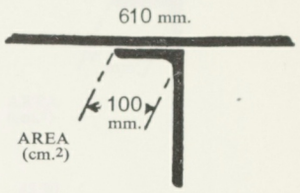
WEB (mm.)	AREA (cm.2)
14	33,20
13,5	32,07
13	30,95
12,5	29,82
12	28,70
11,5	27,57
11	26,45
10,5	25,32
10	24,20

100 mm.

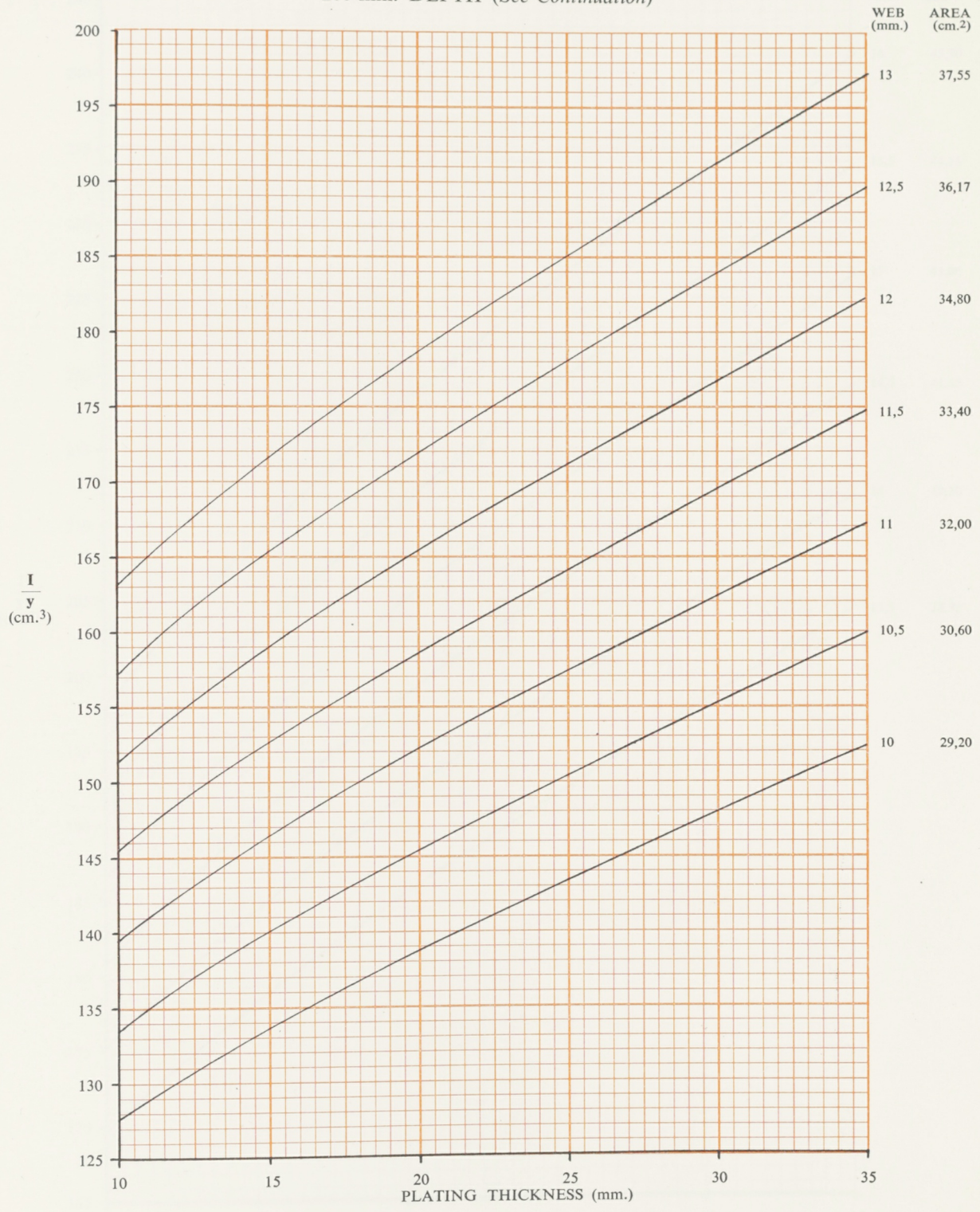
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

100 mm. FLANGE



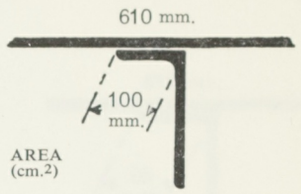
200 mm. DEPTH (*See Continuation*)



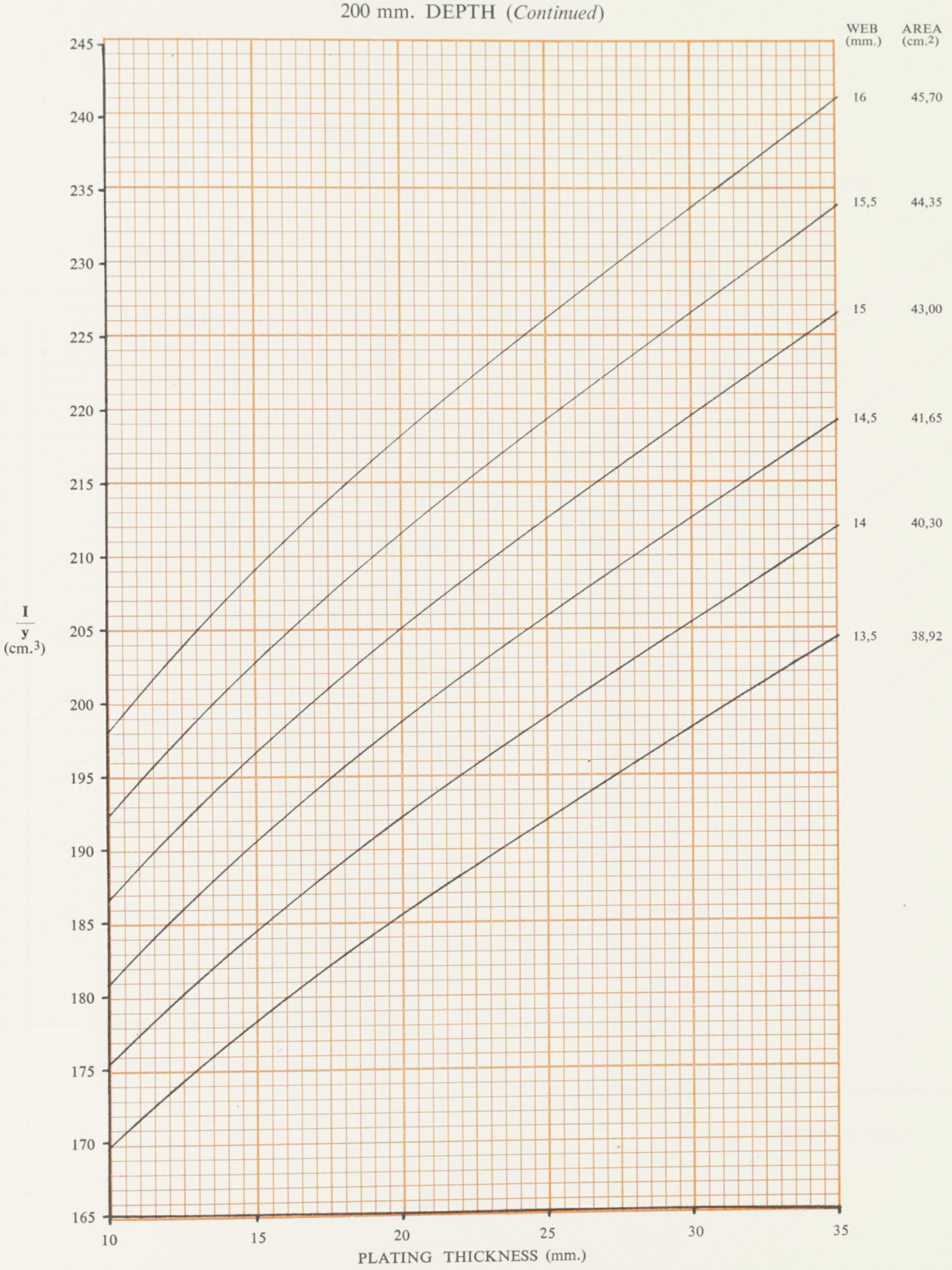
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

100 mm. FLANGE



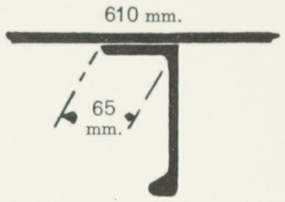
200 mm. DEPTH (*Continued*)



WEB (mm.)	AREA (cm.2)
16	45,70
15,5	44,35
15	43,00
14,5	41,65
14	40,30
13,5	38,92

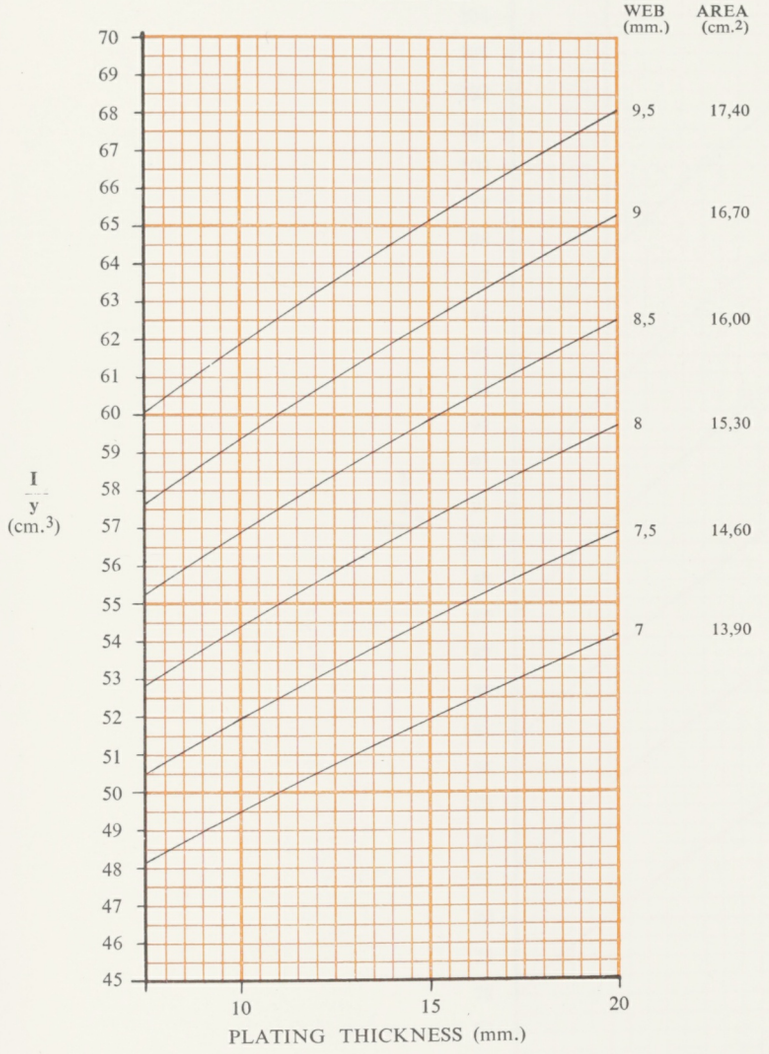
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

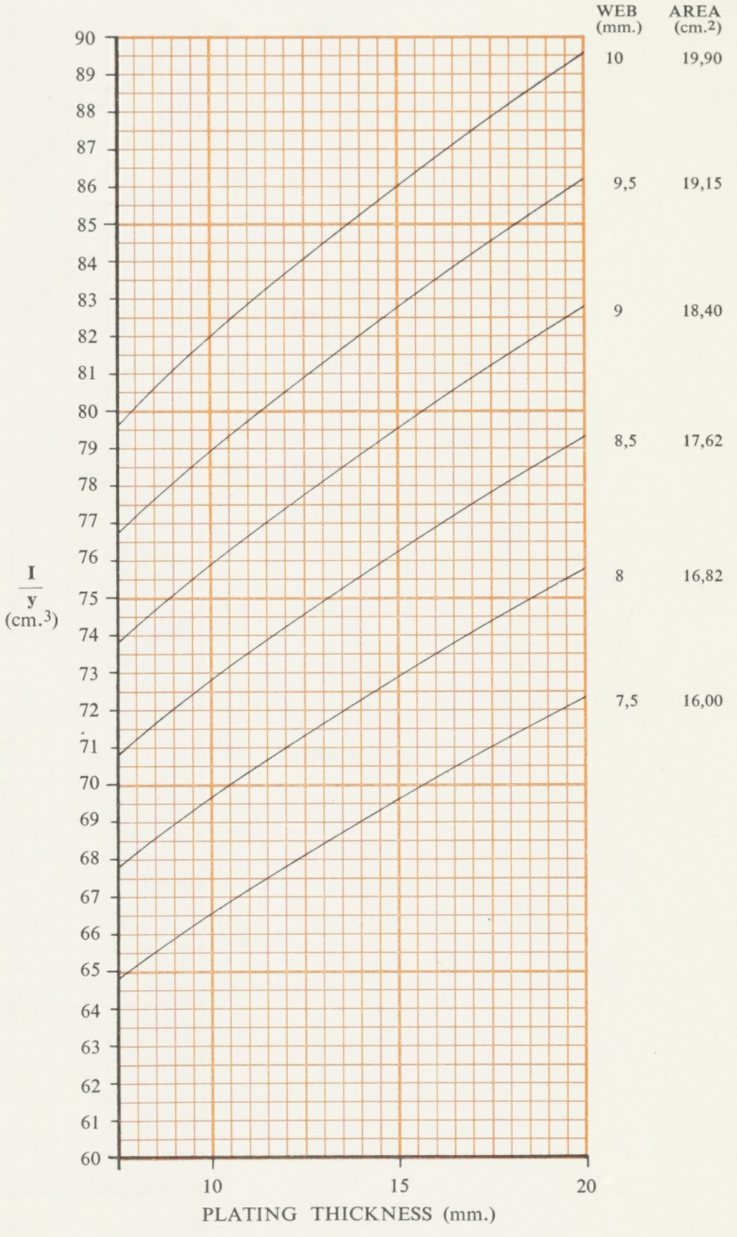


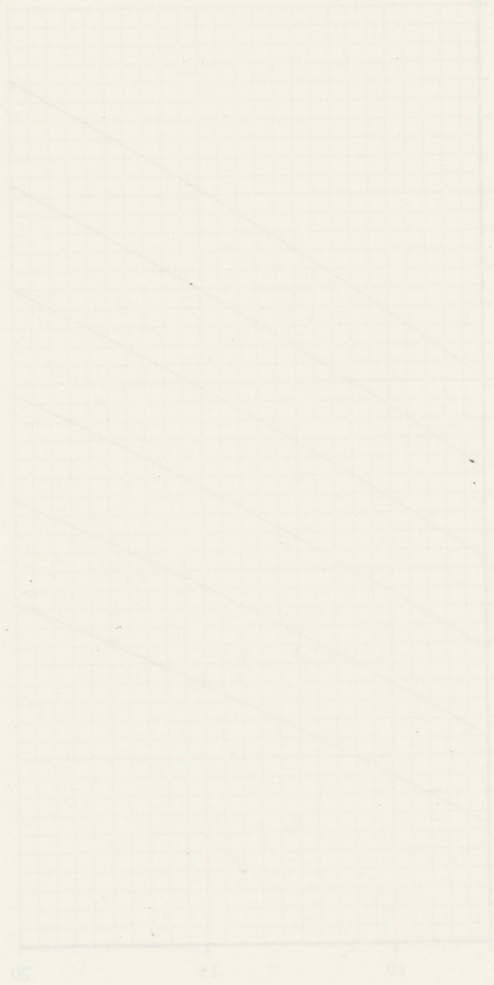
65 mm. FLANGE

115 mm. DEPTH



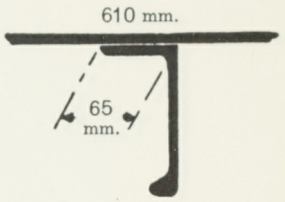
130 mm. DEPTH





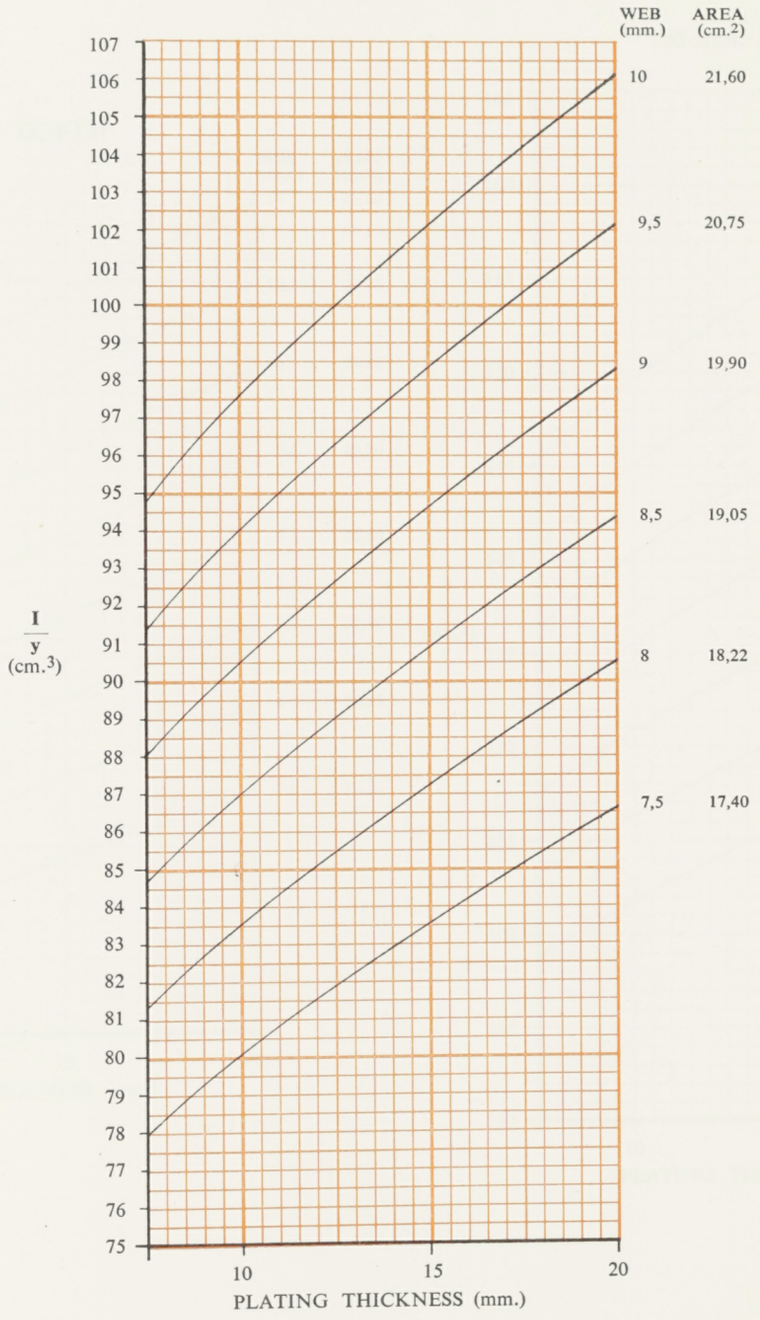
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



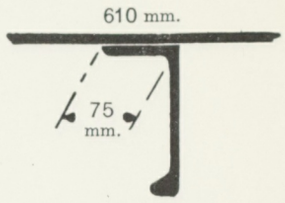
65 mm. FLANGE

140 mm. DEPTH



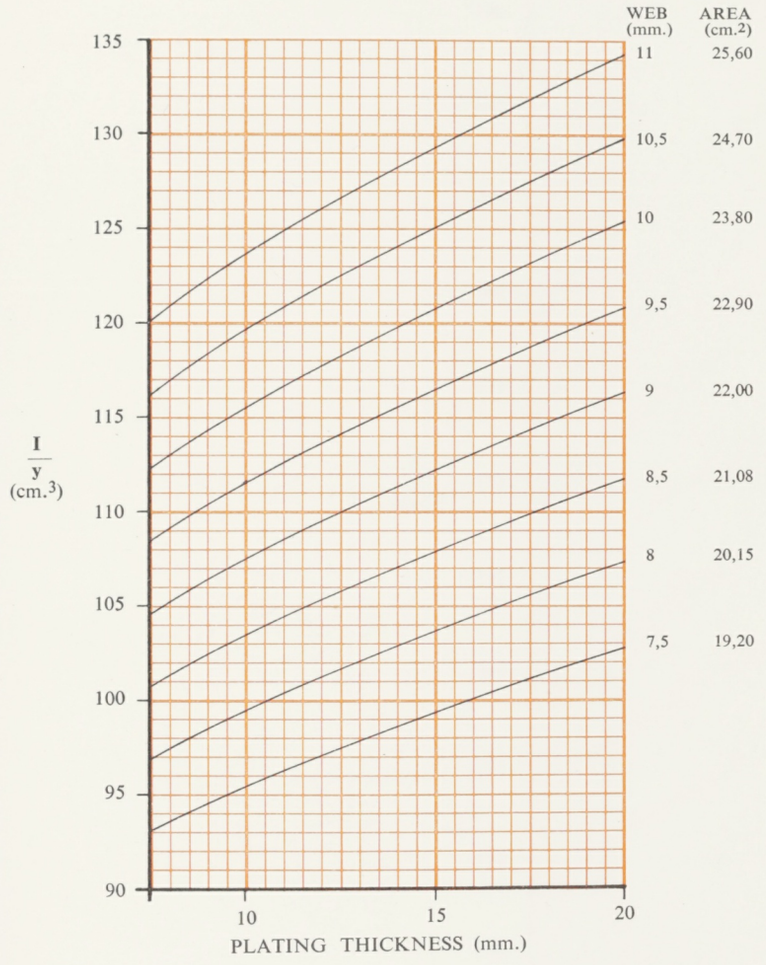
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

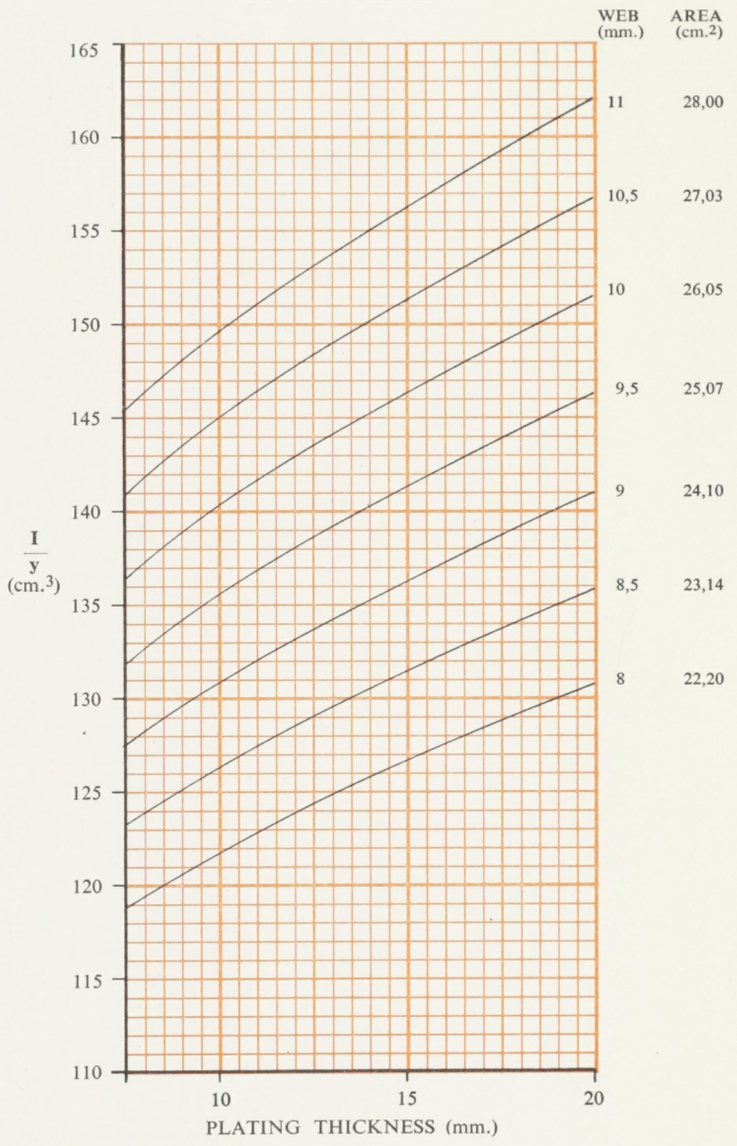


75 mm. FLANGE

150 mm. DEPTH

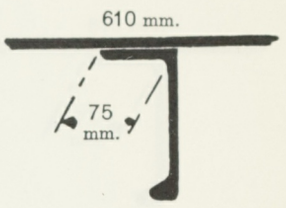


165 mm. DEPTH

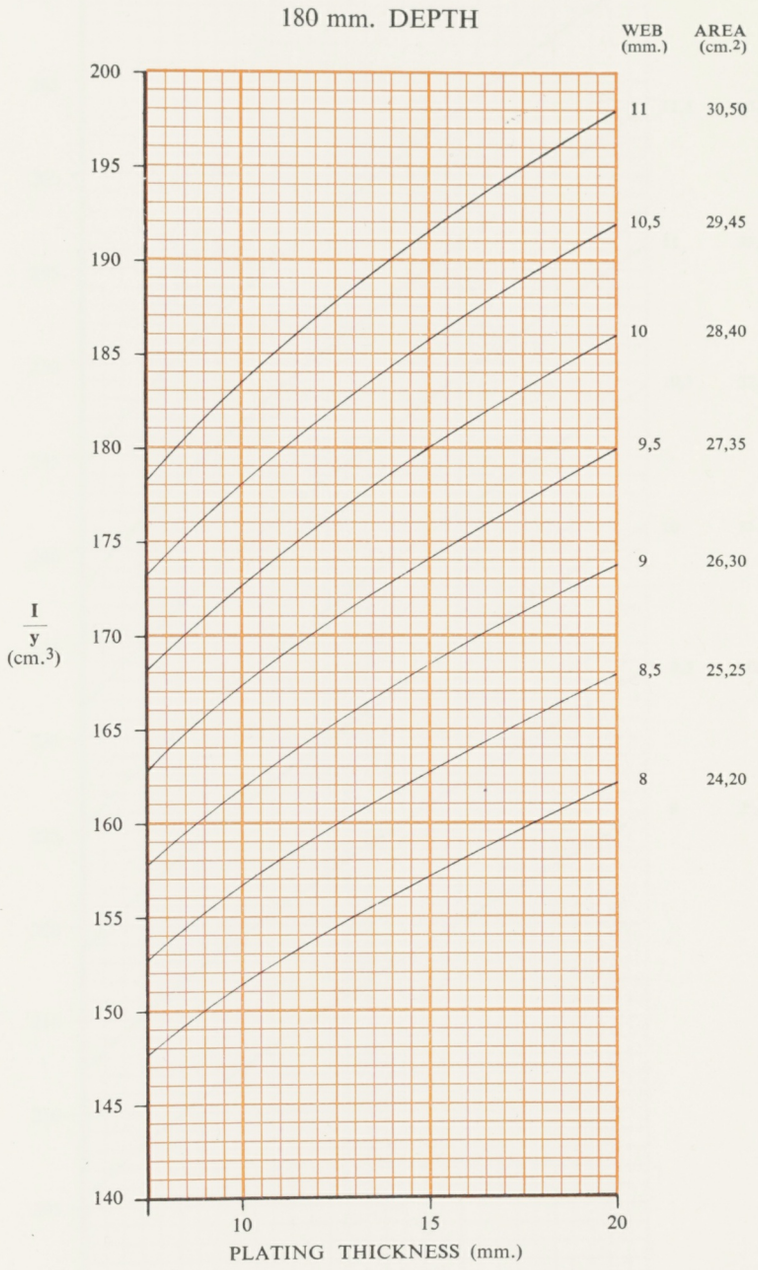


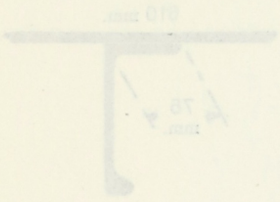
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



75 mm. FLANGE

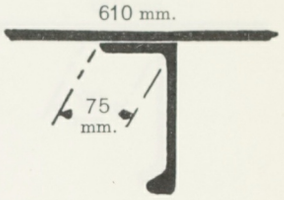



75 min.

PLATING THICKNESS (mm.)

SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

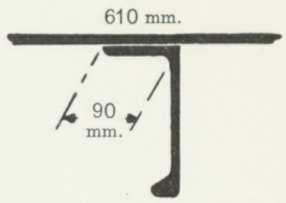


75 mm. FLANGE

200 mm. DEPTH

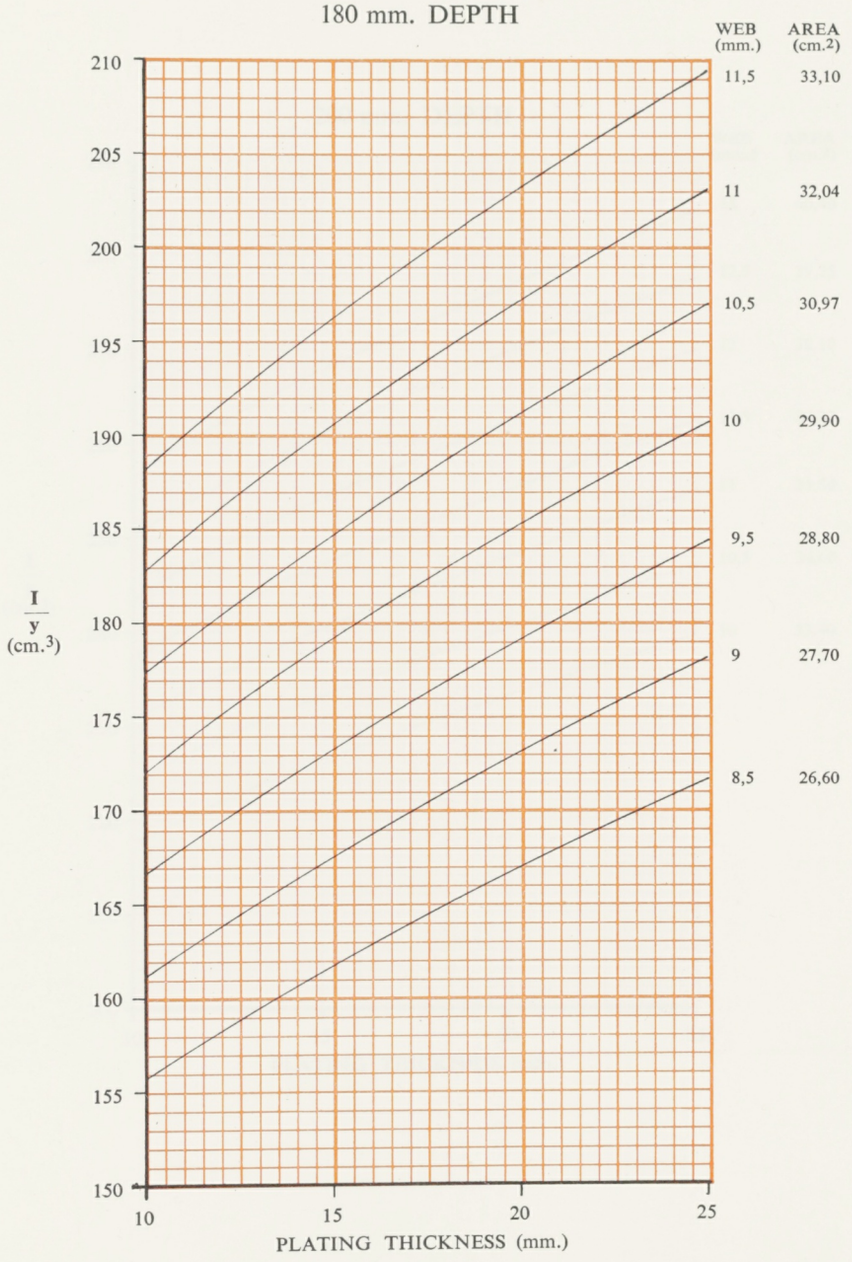
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



90 mm. FLANGE

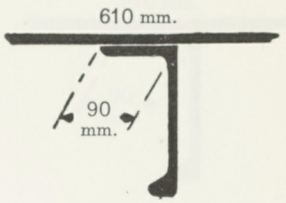
180 mm. DEPTH



610 mm.
90 mm.

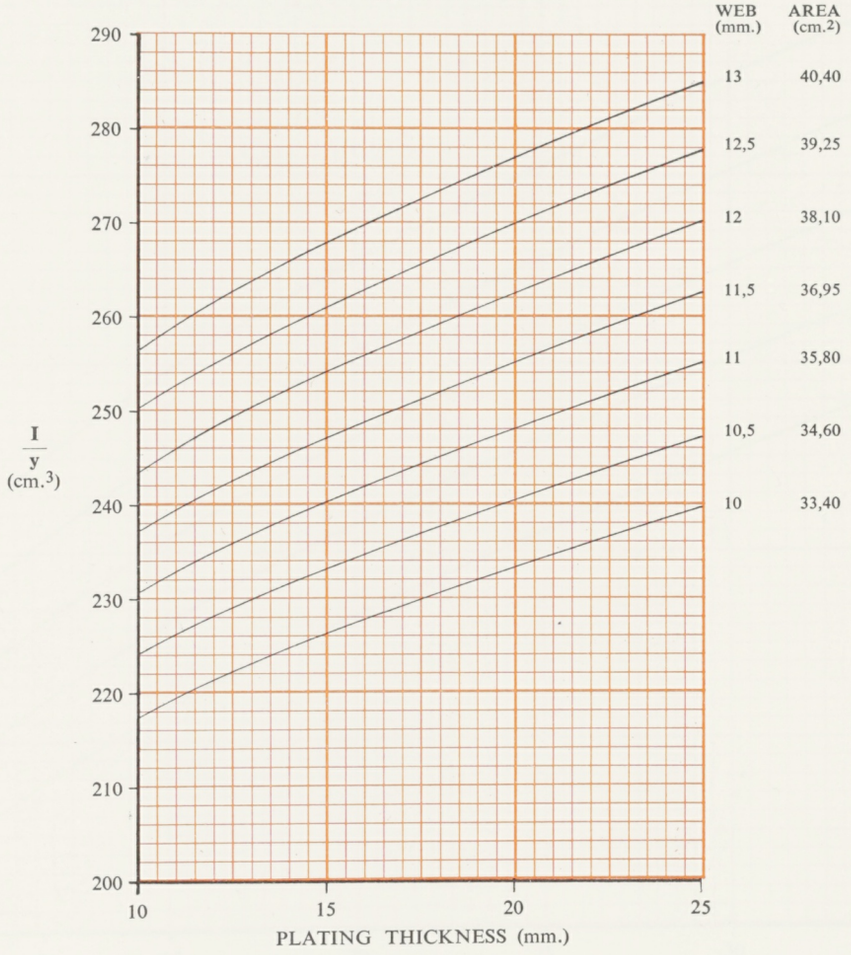
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



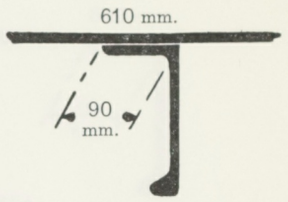
90 mm. FLANGE

200 mm. DEPTH



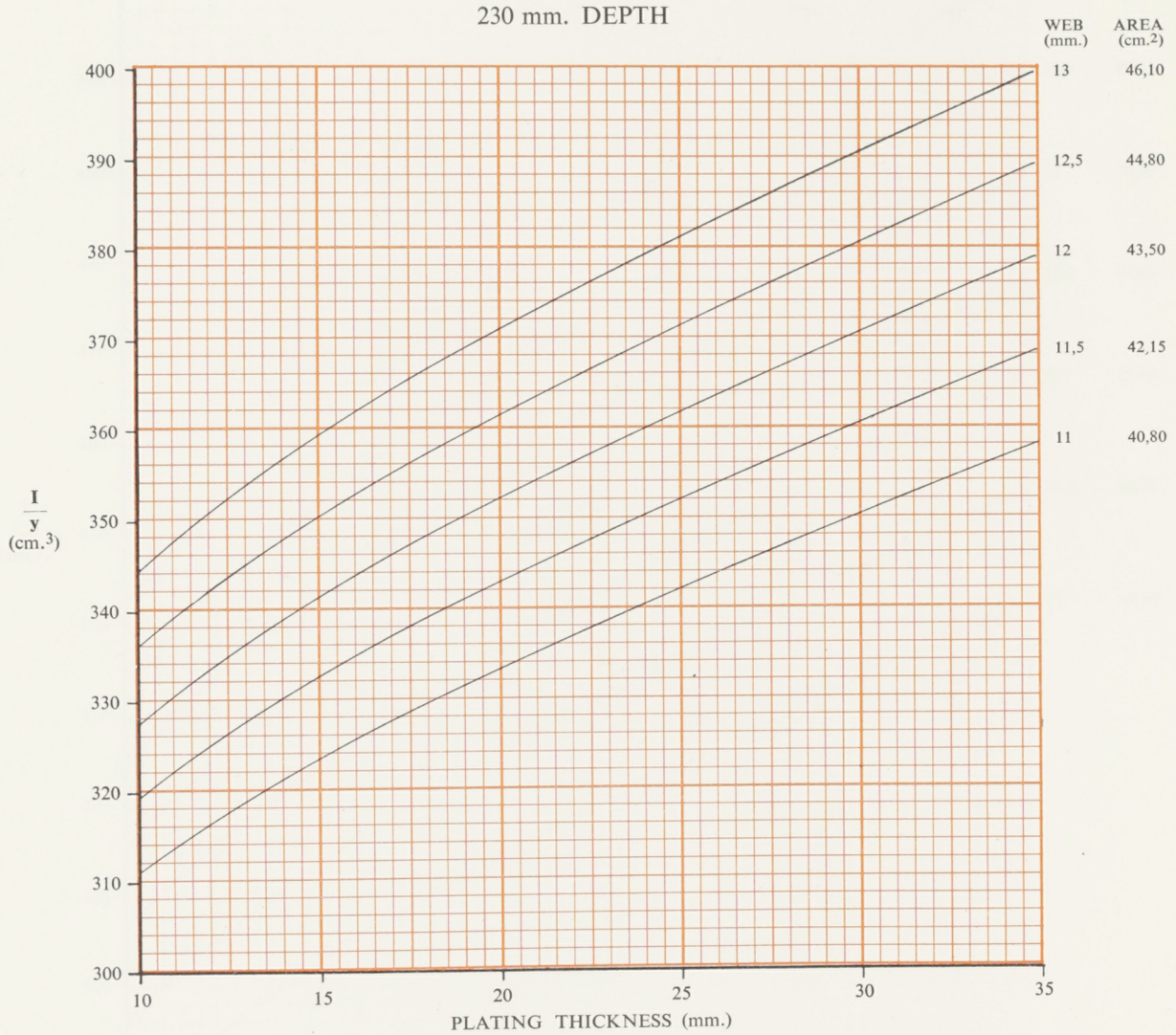
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



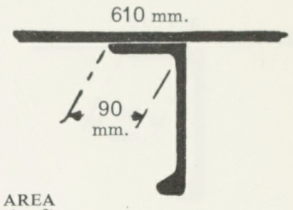
90 mm. FLANGE

230 mm. DEPTH



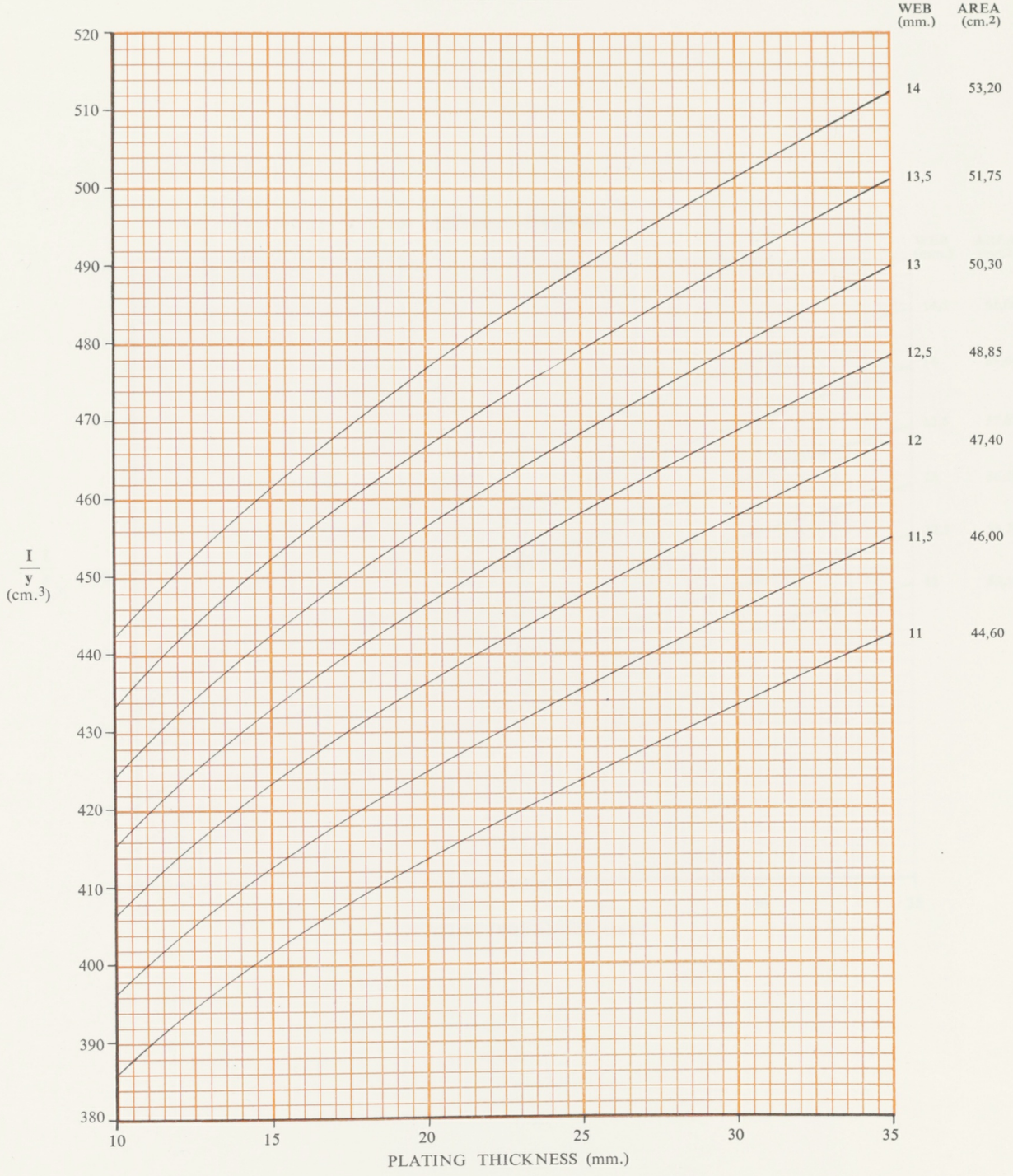
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



90 mm. FLANGE

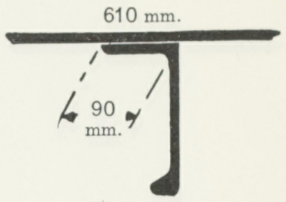
250 mm. DEPTH



510 mm.
90 mm.

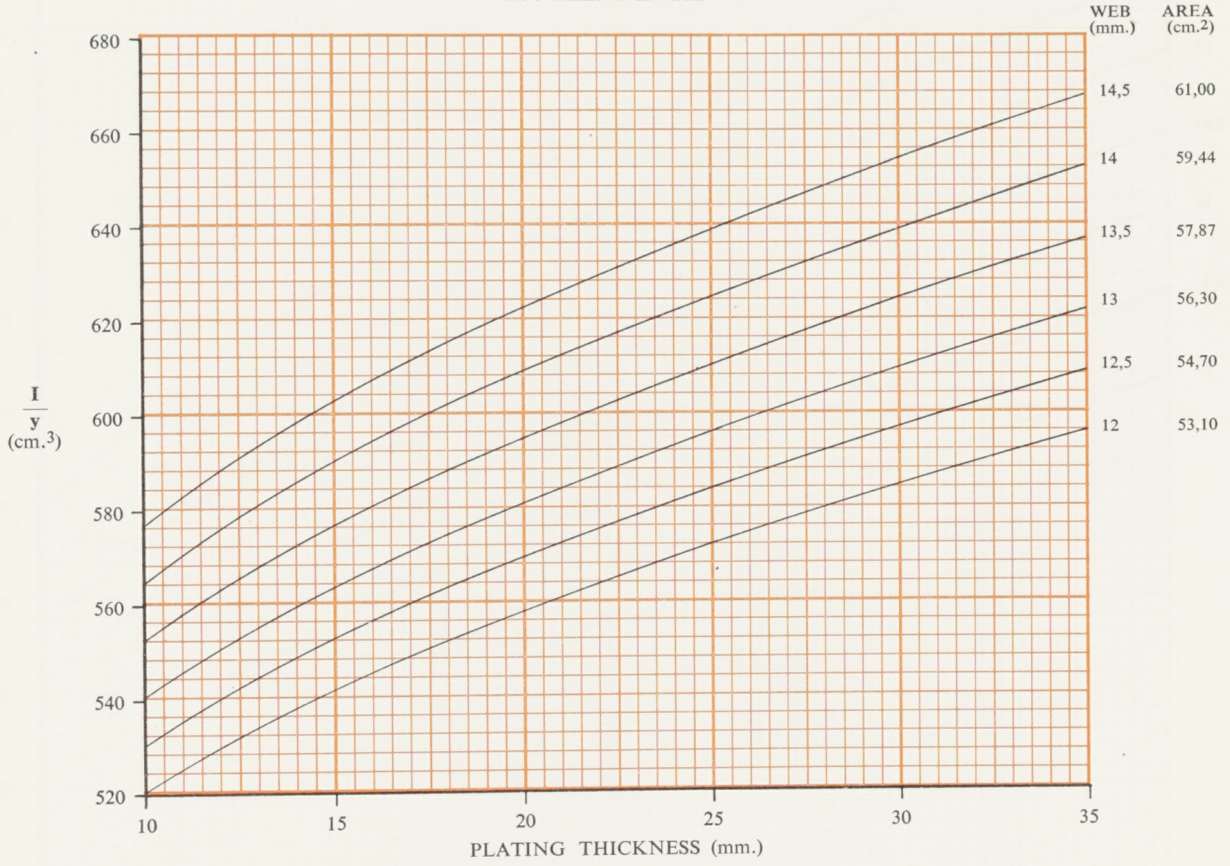
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



90 mm. FLANGE

280 mm. DEPTH

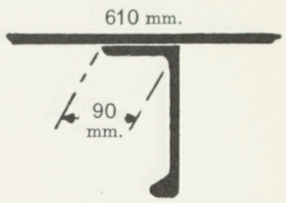


610 mm.
90 mm. FLANGE
90°
min.

280 mm. DEPTH
WEB (mm.)
AREA (cm.²)
14.5 61.30
14 59.44
13.5 57.57
13 55.70
12.5 53.70
12 51.10
680
660
640
620
600
580
560
540
520
10
15
20
25
30
35
PLATING THICKNESS (mm.)

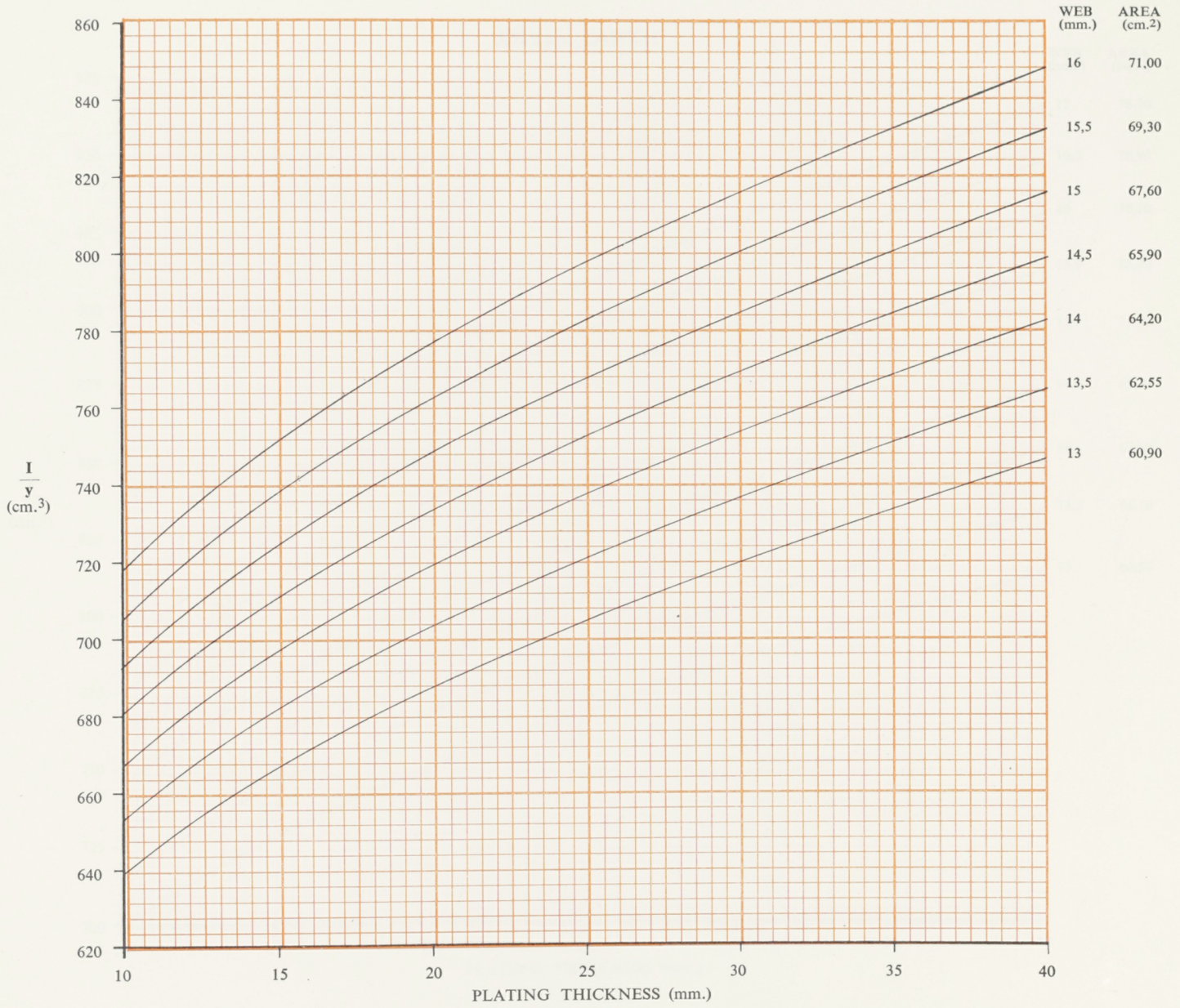
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



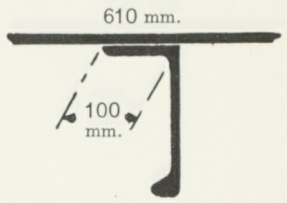
90 mm. FLANGE

300 mm. DEPTH



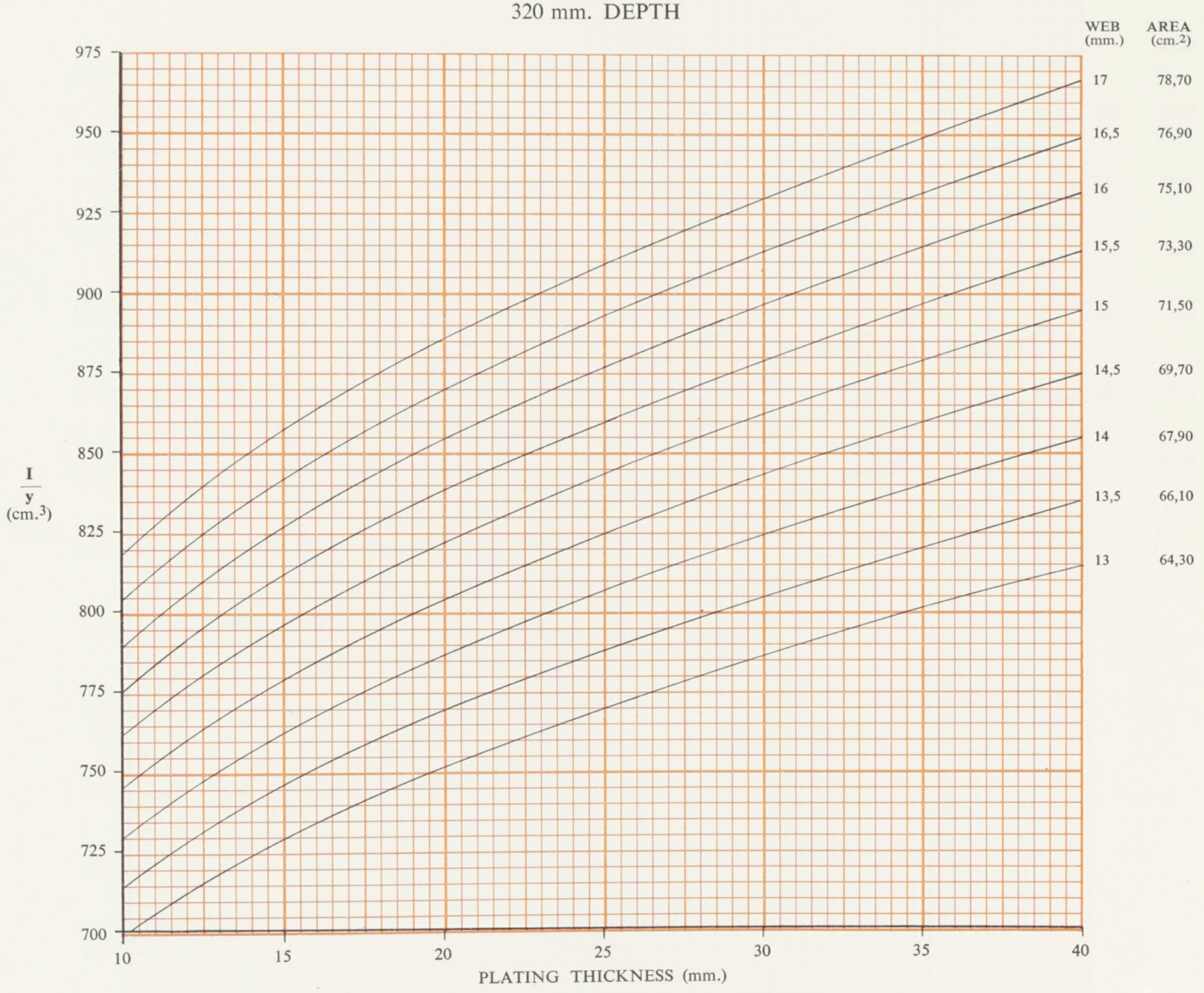
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



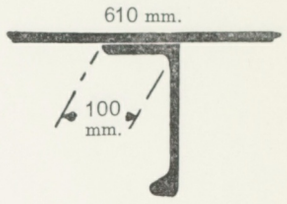
100 mm. FLANGE

320 mm. DEPTH



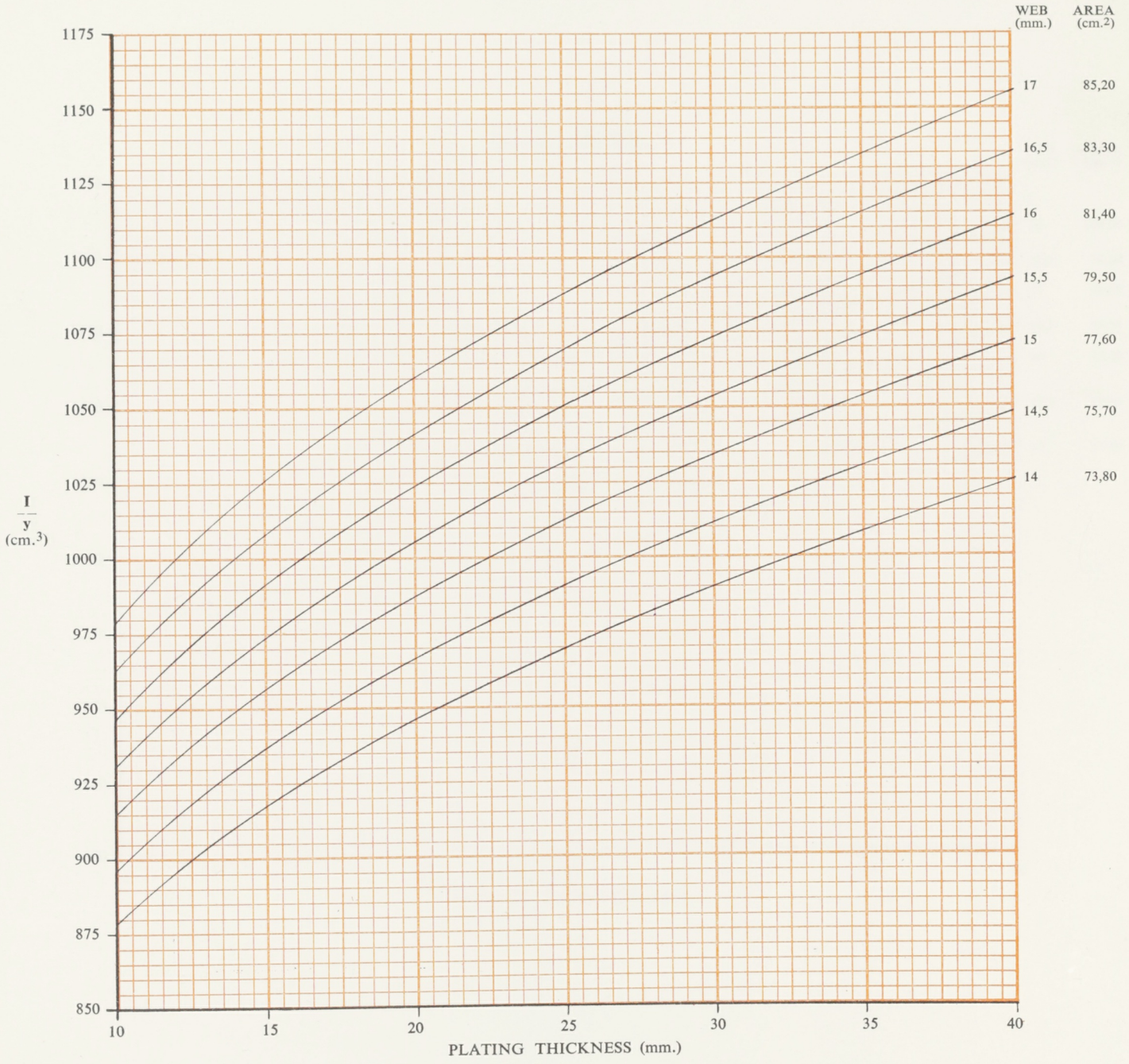
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



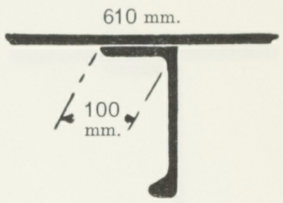
100 mm. FLANGE

340 mm. DEPTH



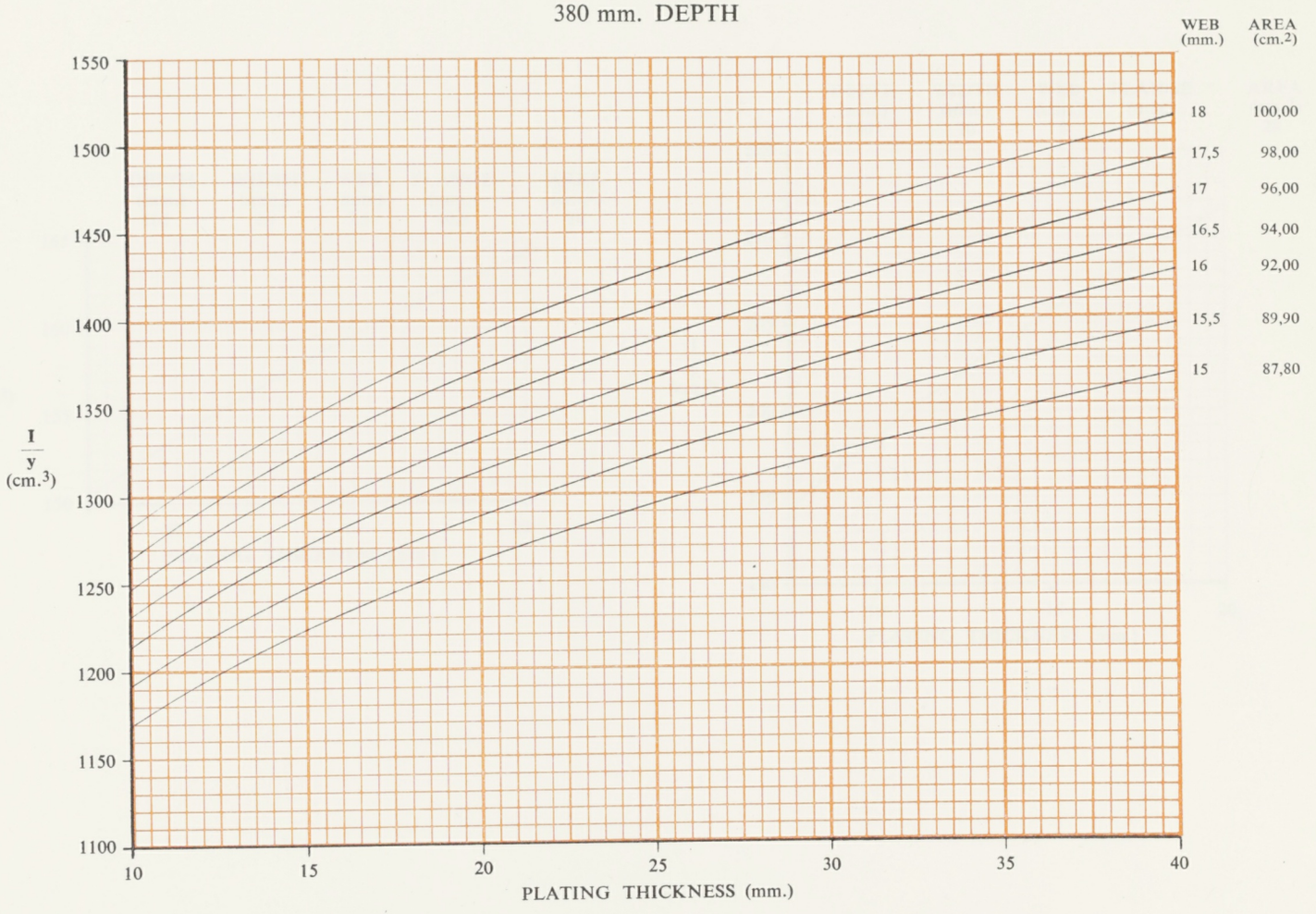
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



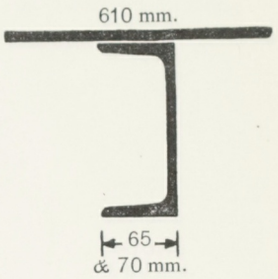
100 mm. FLANGE

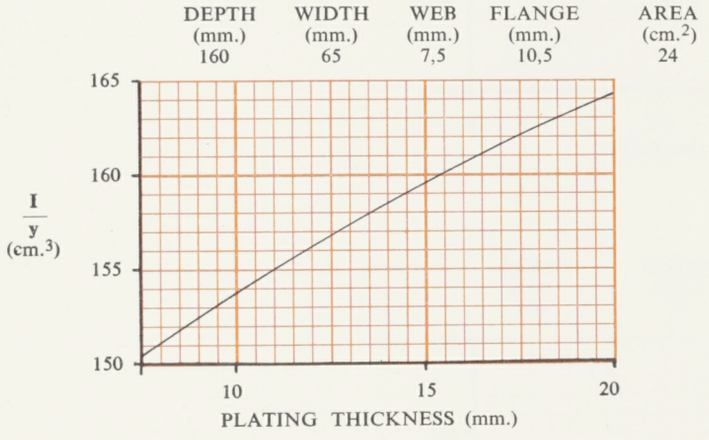
380 mm. DEPTH

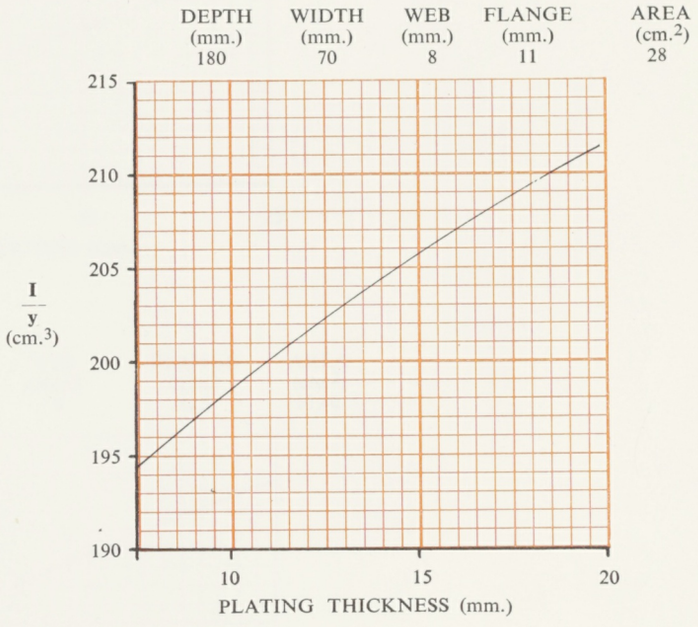


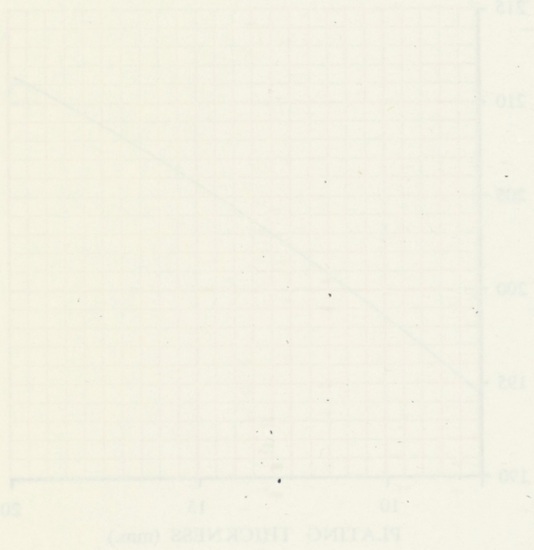
SECTION MODULUS AND AREA OF CHANNELS

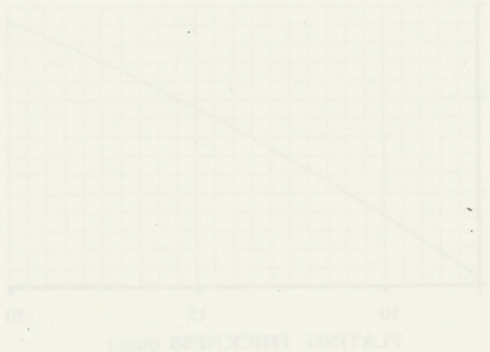
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)





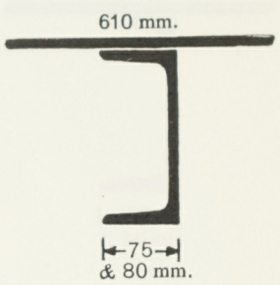




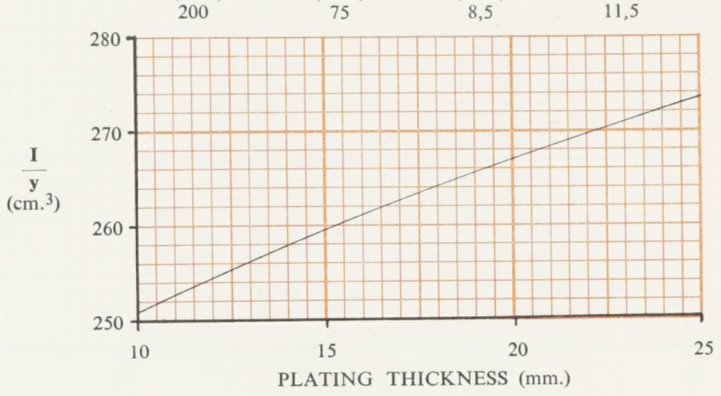


SECTION MODULUS AND AREA OF CHANNELS

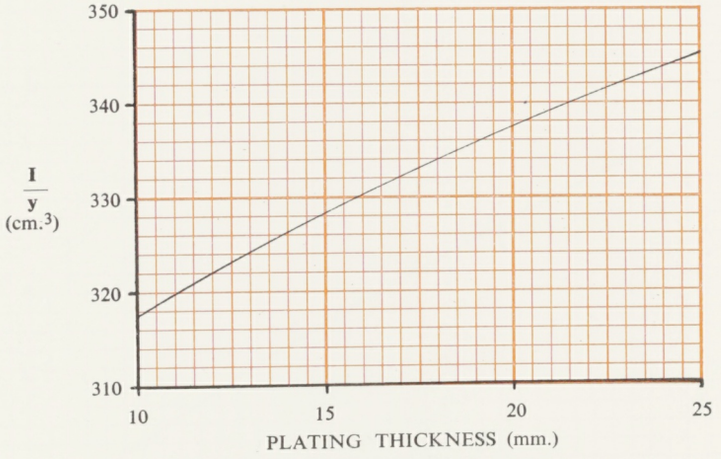
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA ($cm.^2$)
200	75	8,5	11,5	32,20

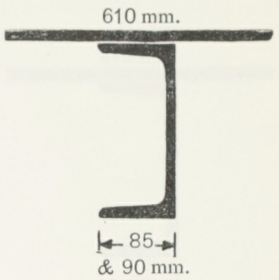


DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA ($cm.^2$)
220	80	9	12,5	37,40

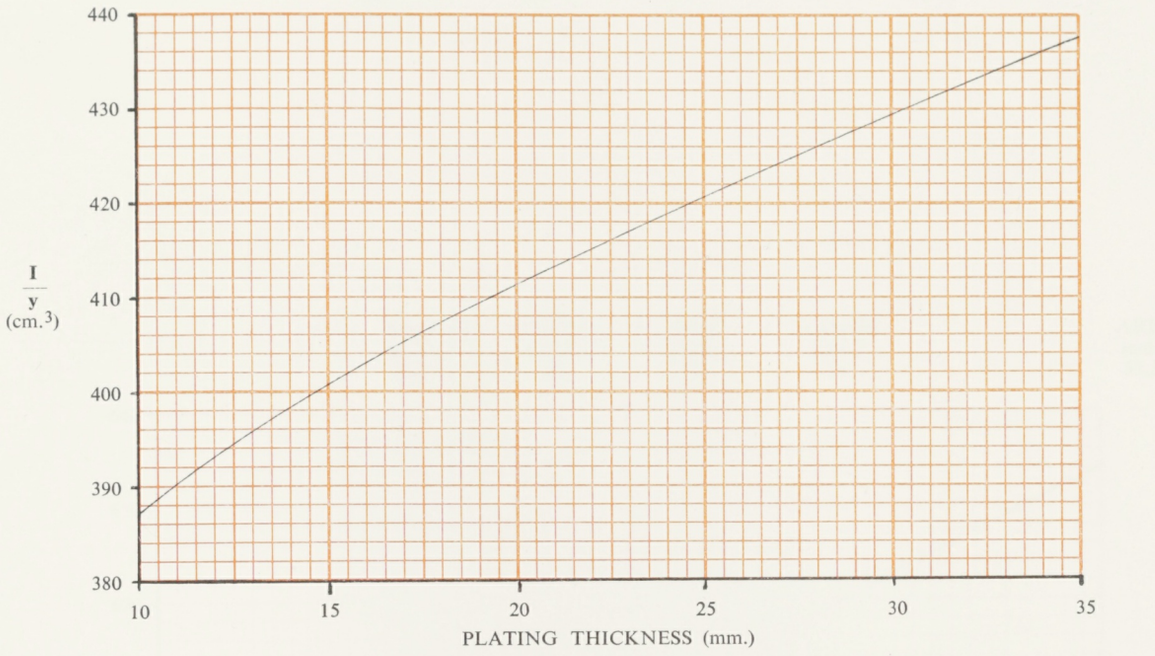


SECTION MODULUS AND AREA OF CHANNELS

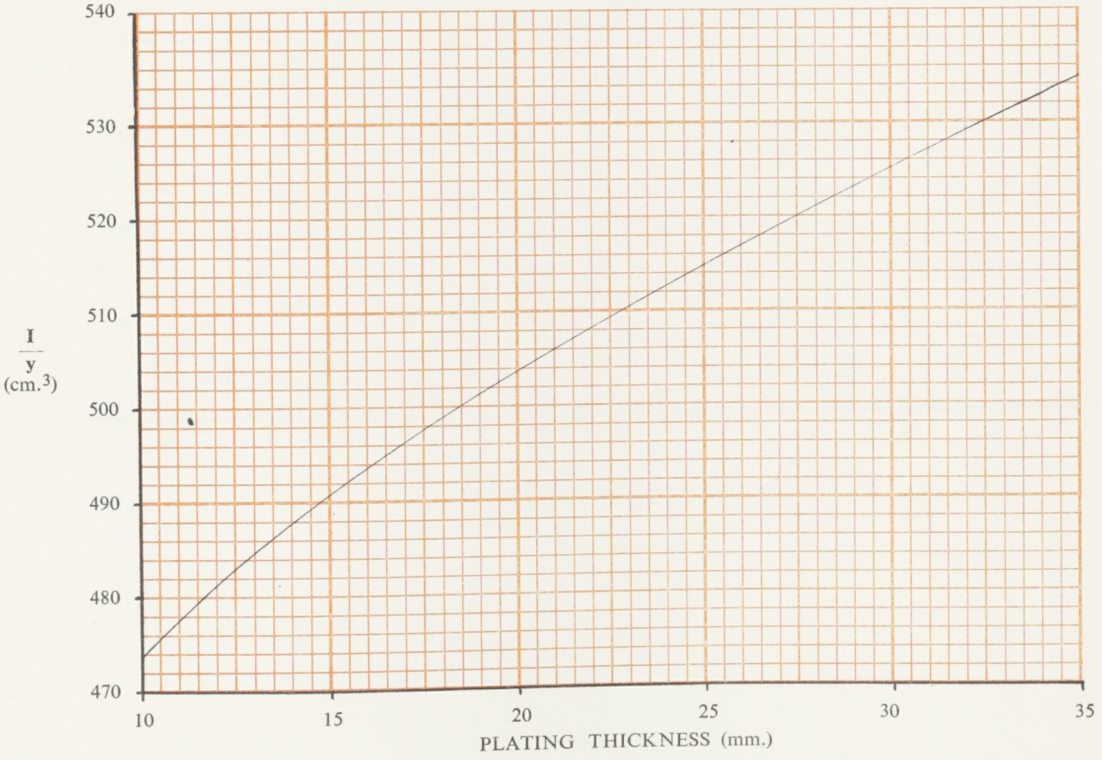
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA ($cm.^2$)
240	85	9,5	13	42,30

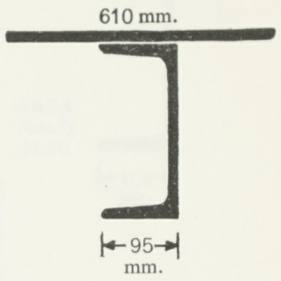


DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA ($cm.^2$)
260	90	10	14	48,30

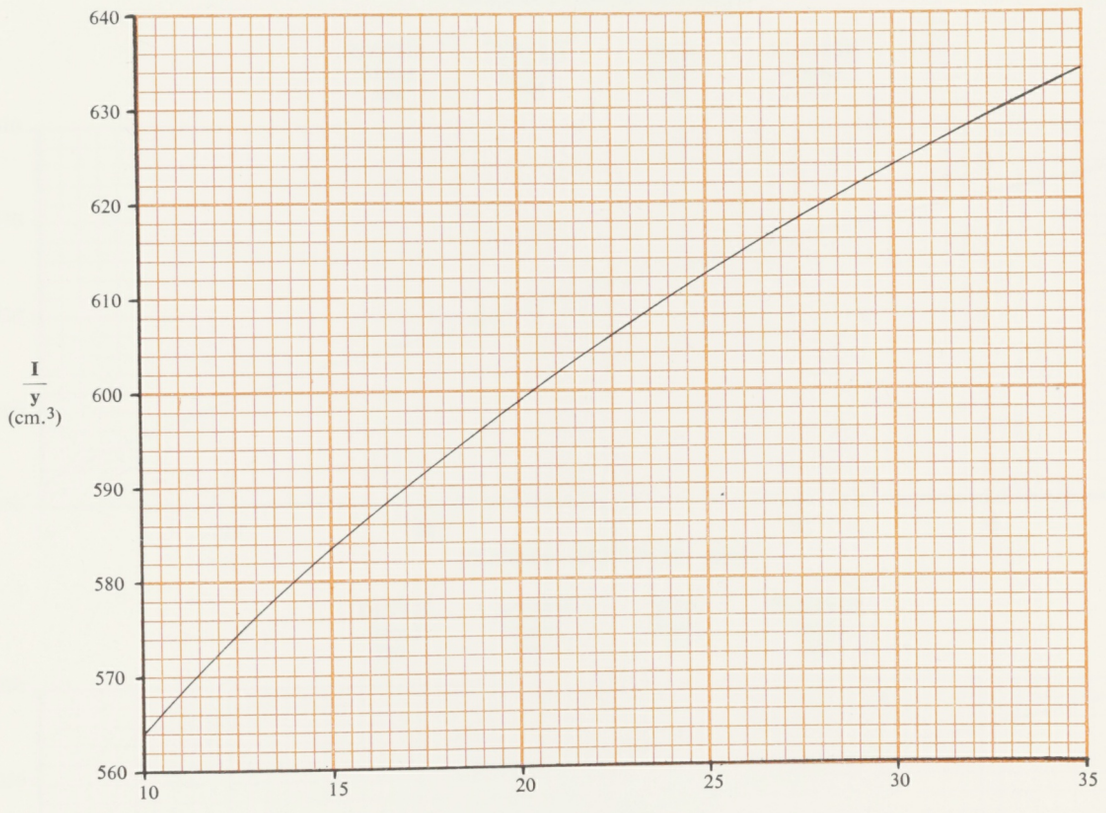


SECTION MODULUS AND AREA OF CHANNELS

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

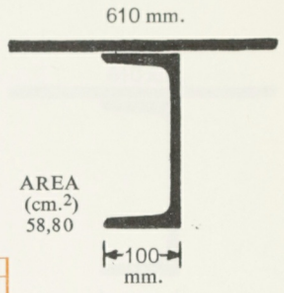


DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA ($cm.^2$)
280	95	10	15	53,30

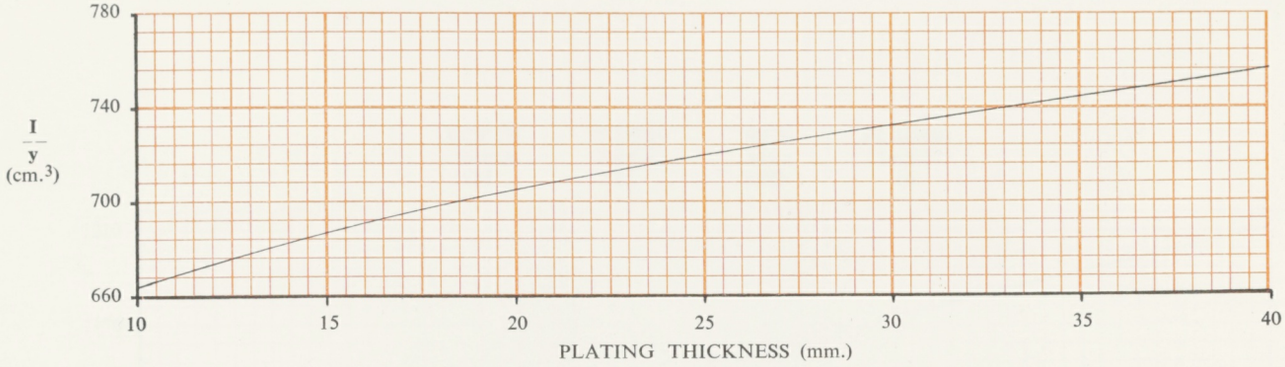


SECTION MODULUS AND AREA OF CHANNELS

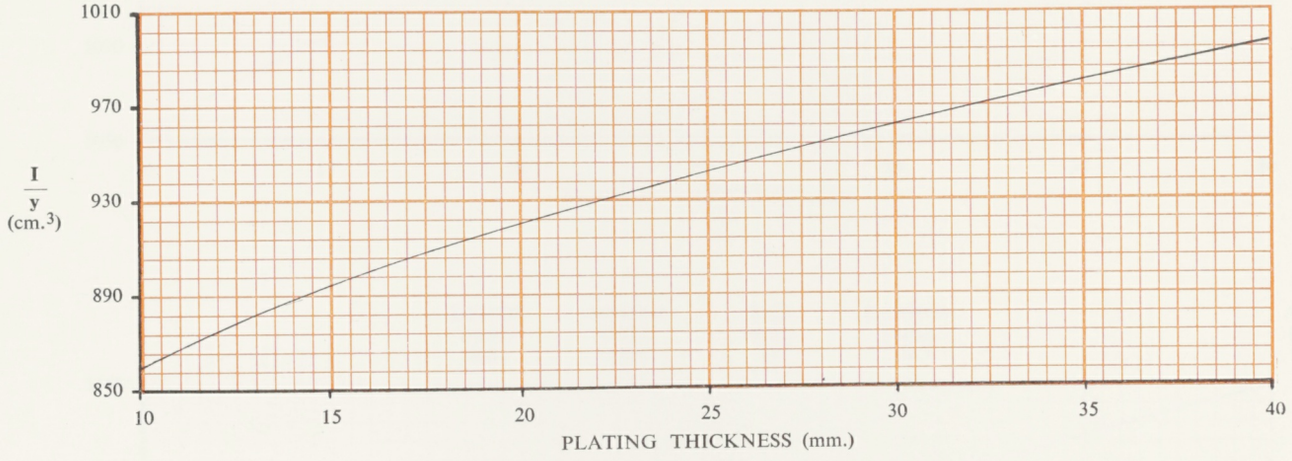
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



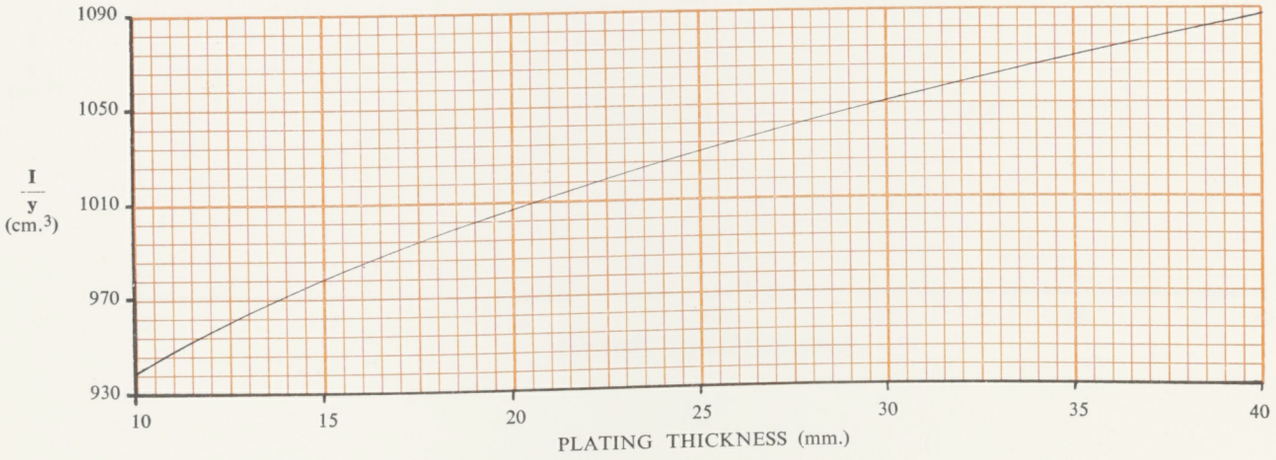
DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA ($cm.^2$)
300	100	10	16	58,80



DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA ($cm.^2$)
320	100	14	17,5	75,80

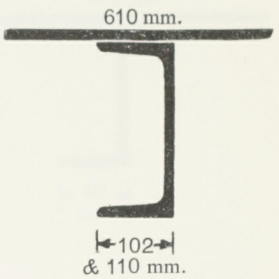


DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA ($cm.^2$)
350	100	14	16	77,30

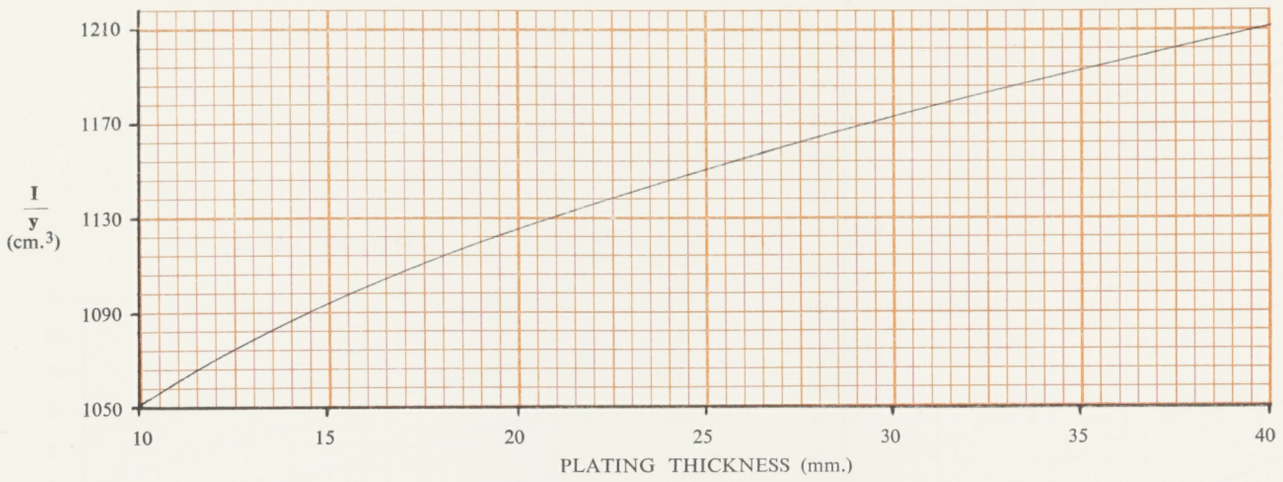


SECTION MODULUS AND AREA OF CHANNELS

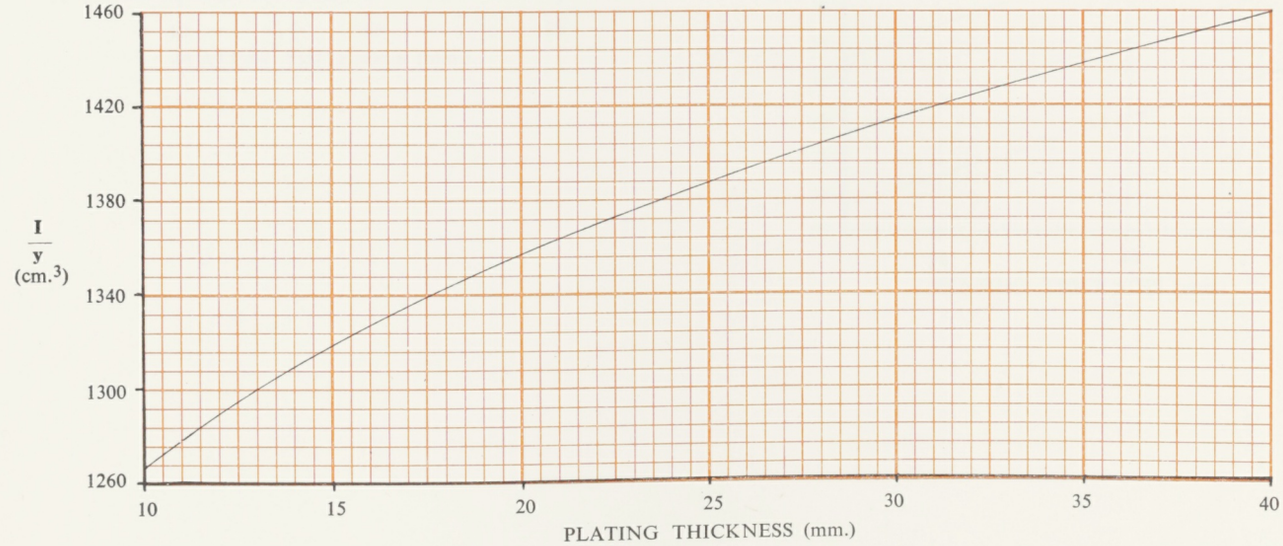
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA ($cm.^2$)
381	102	13,34	16	79,70

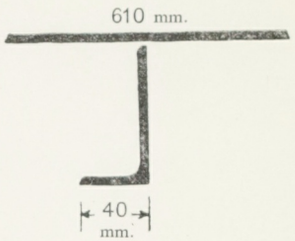


DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA ($cm.^2$)
400	110	14	18	91,50



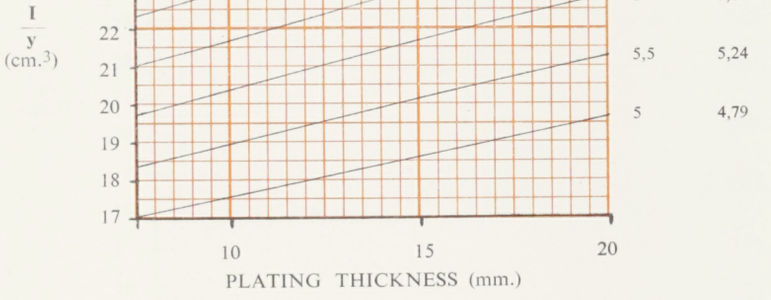
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



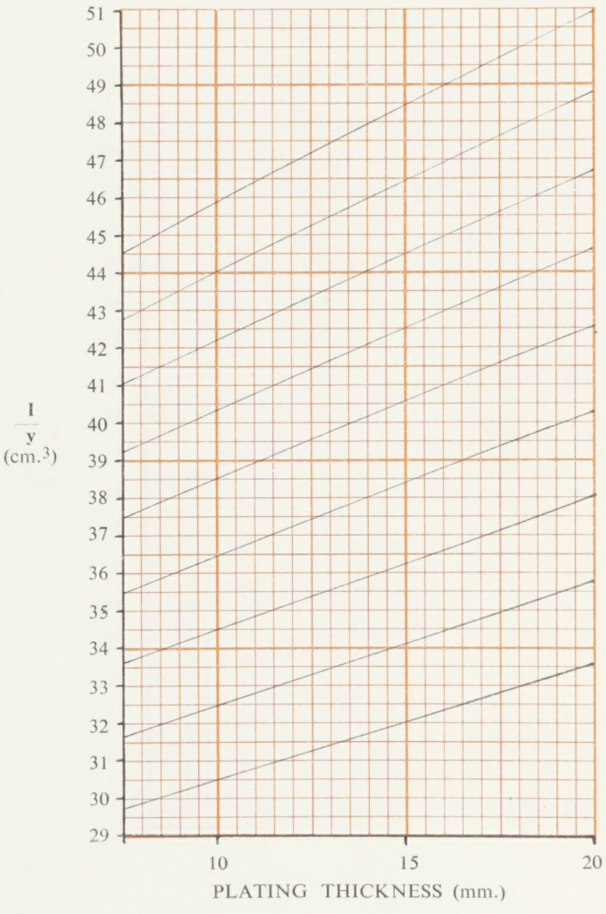
40 mm. FLANGE

60 mm. DEPTH

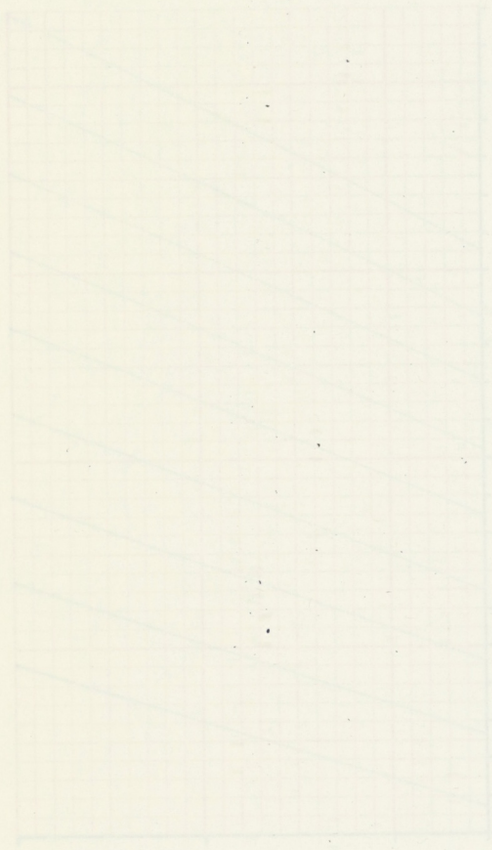


WEB (mm.)	AREA (cm.2)
7	6,55
6,5	6,12
6	5,68
5,5	5,24
5	4,79

80 mm. DEPTH

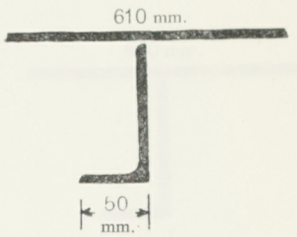


WEB (mm.)	AREA (cm.2)
10	11,10
9,5	10,58
9	10,06
8,5	9,54
8	9,01
7,5	8,48
7	7,95
6,5	7,42
6	6,89



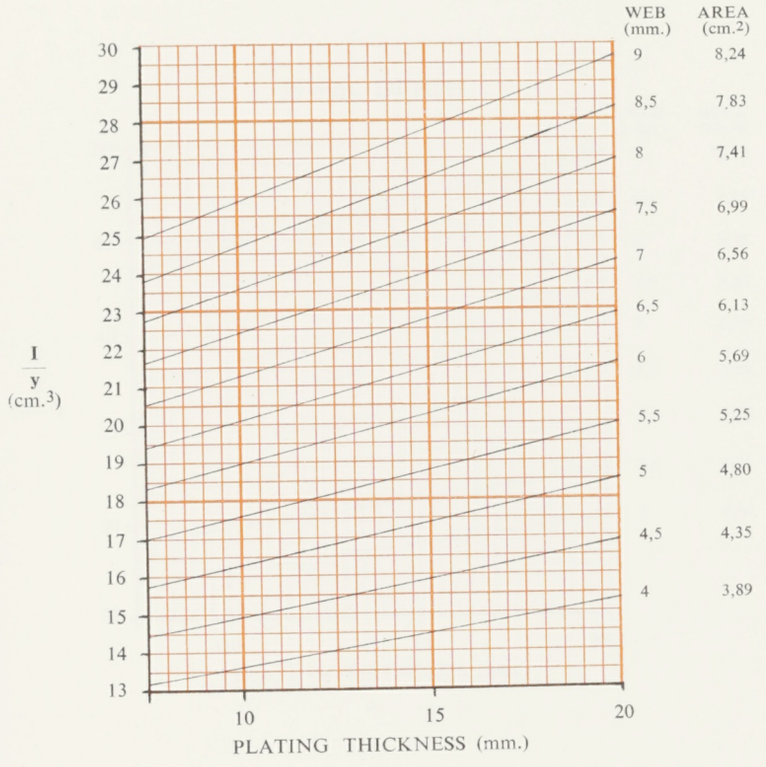
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

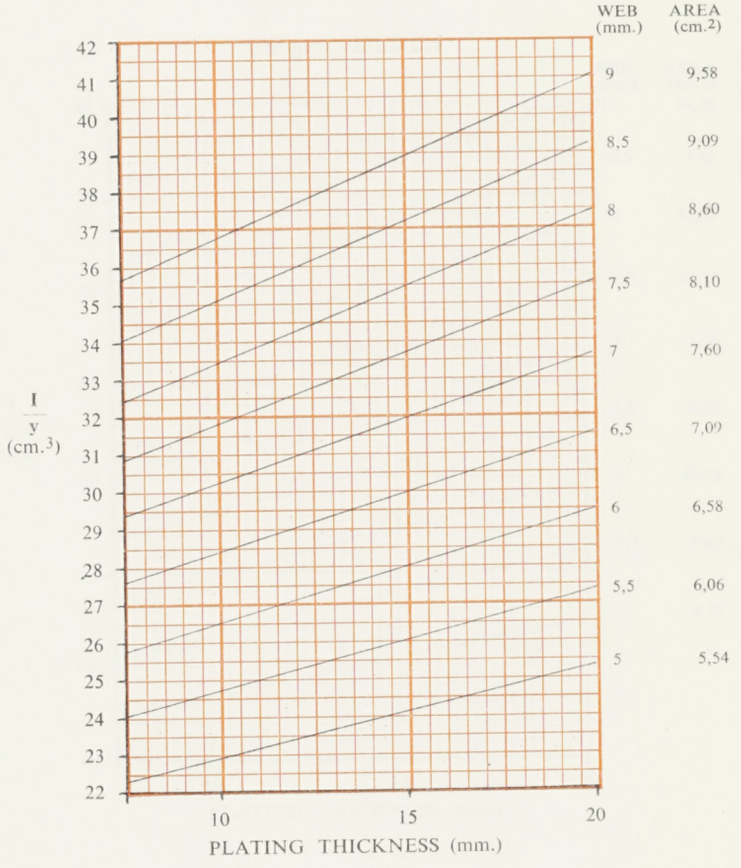


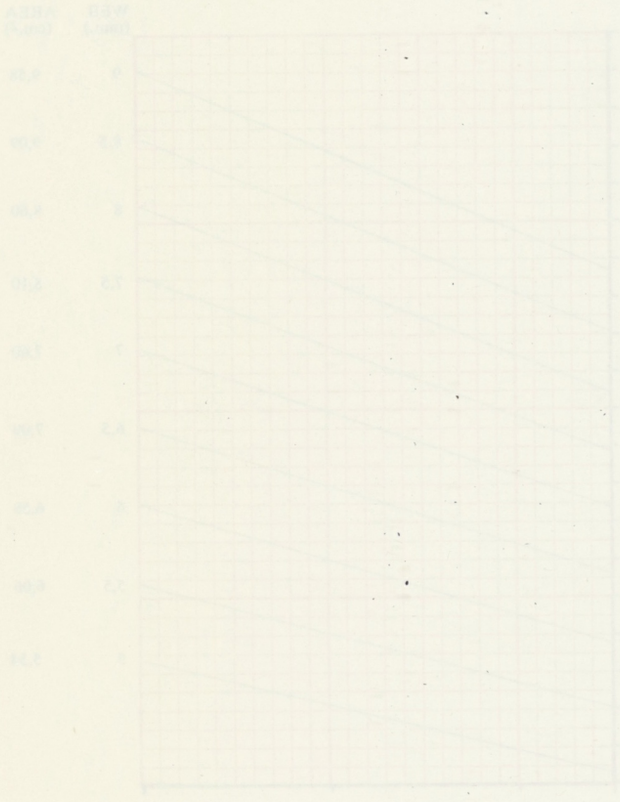
50 mm. FLANGE

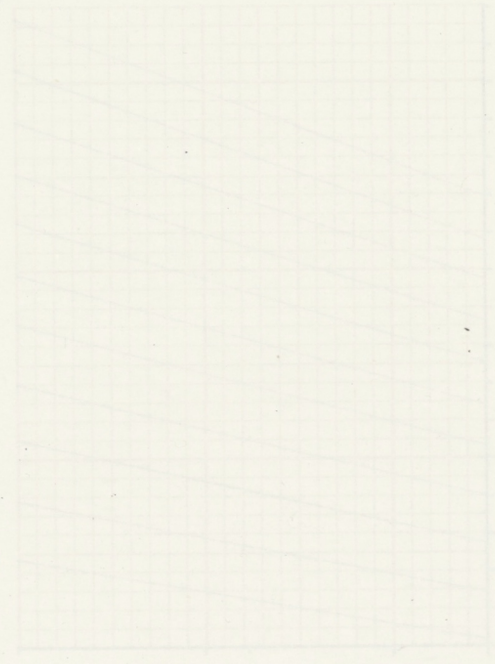
50 mm. DEPTH



65 mm. DEPTH

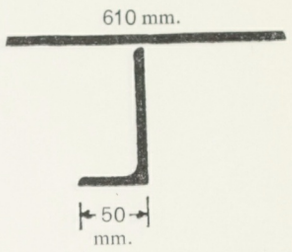






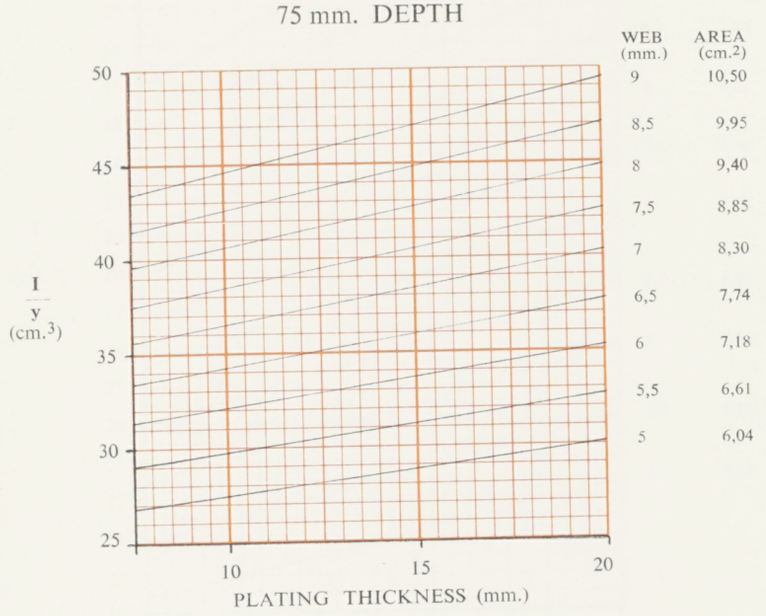
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



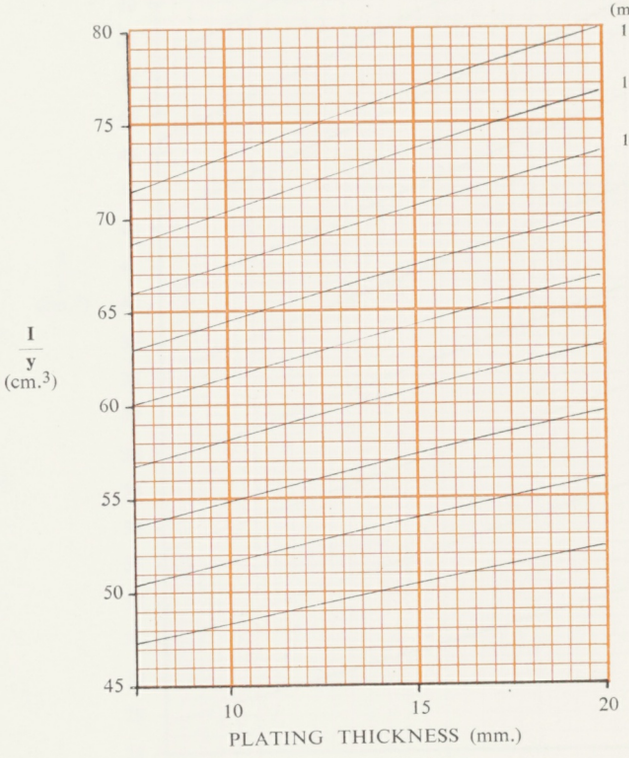
50 mm. FLANGE

75 mm. DEPTH

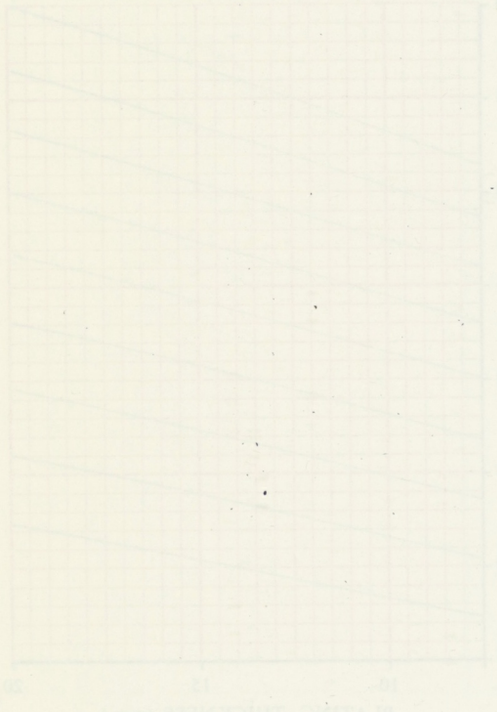


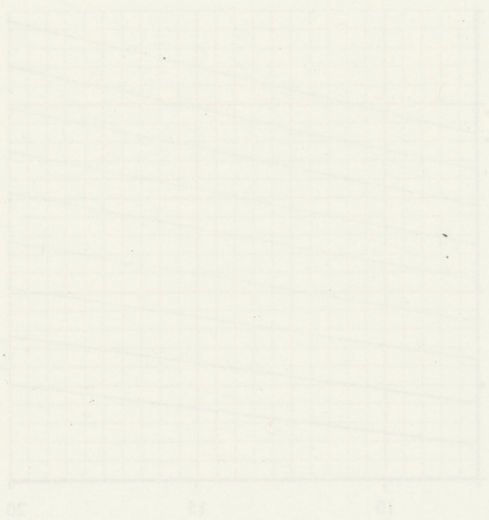
WEB (mm.)	AREA (cm.2)
9	10,50
8,5	9,95
8	9,40
7,5	8,85
7	8,30
6,5	7,74
6	7,18
5,5	6,61
5	6,04

100 mm. DEPTH



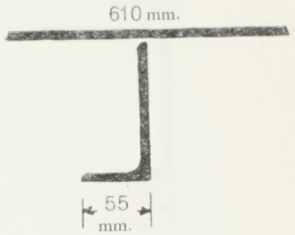
WEB (mm.)	AREA (cm.2)
11	14,10
10,5	13,45
10	12,80
9,5	12,15
9	11,50
8,5	10,81
8	10,12
7,5	9,43
7	8,73





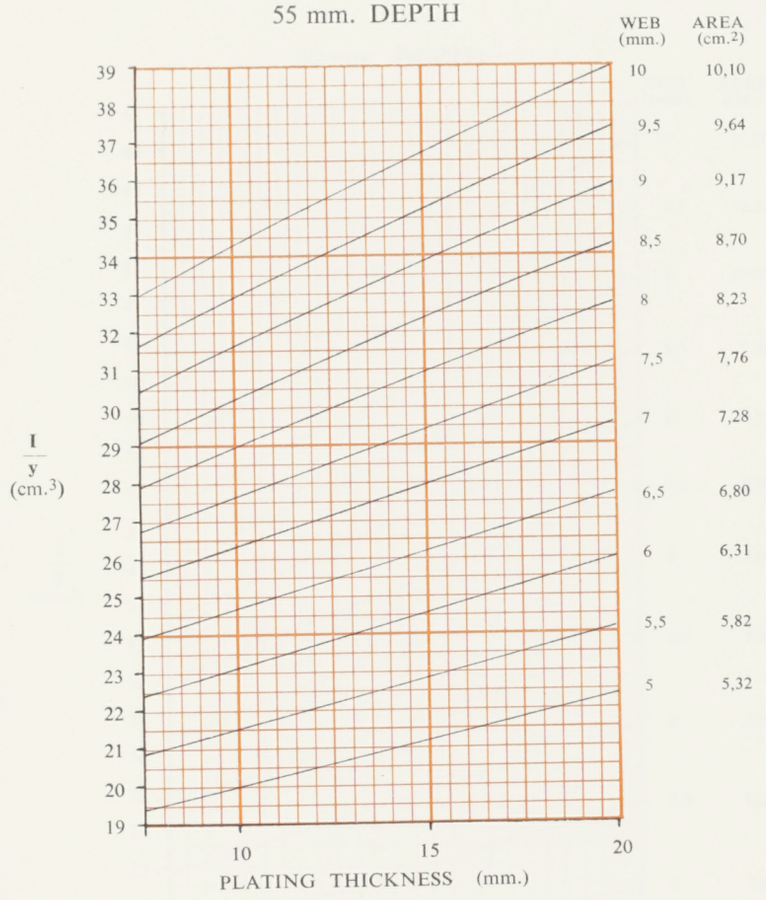
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

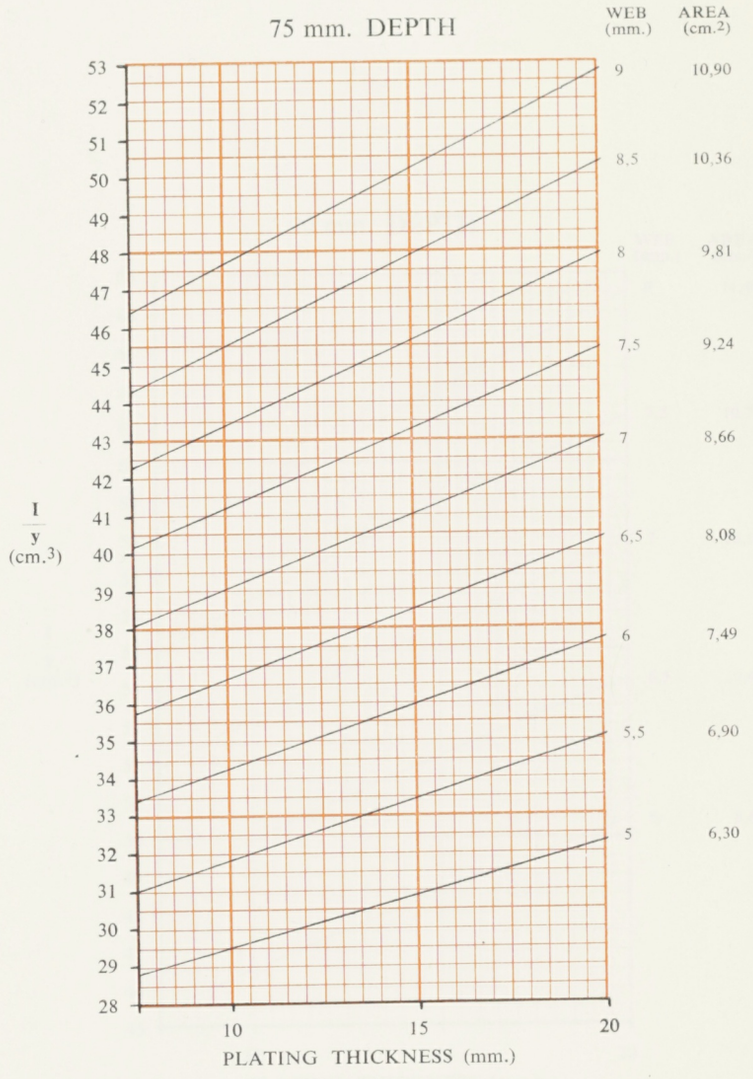


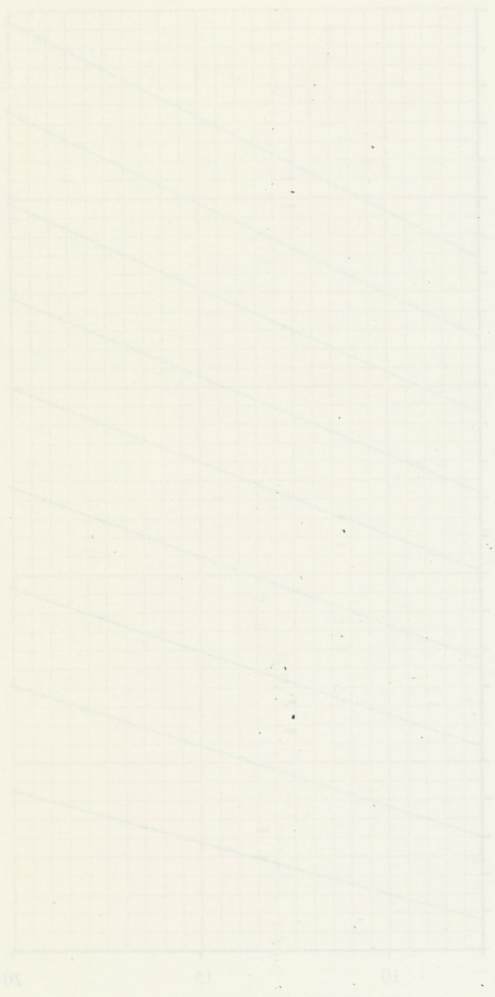
55 mm. FLANGE

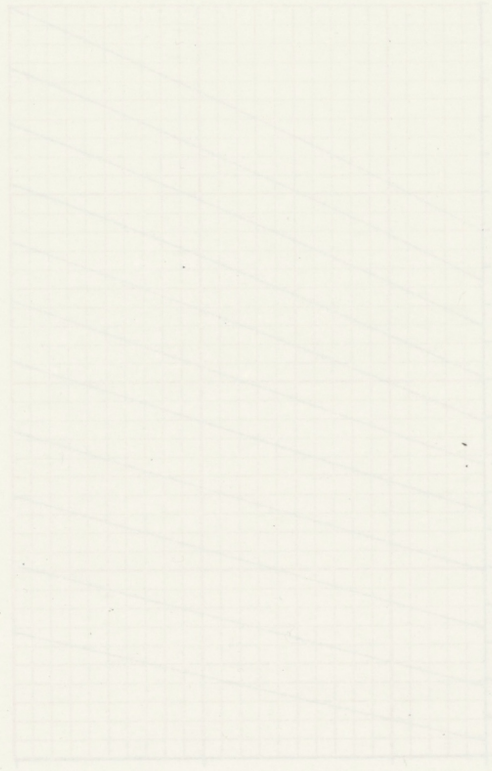
55 mm. DEPTH



75 mm. DEPTH

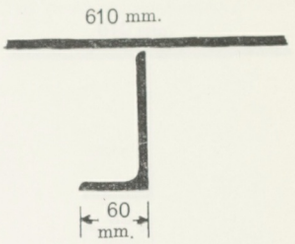






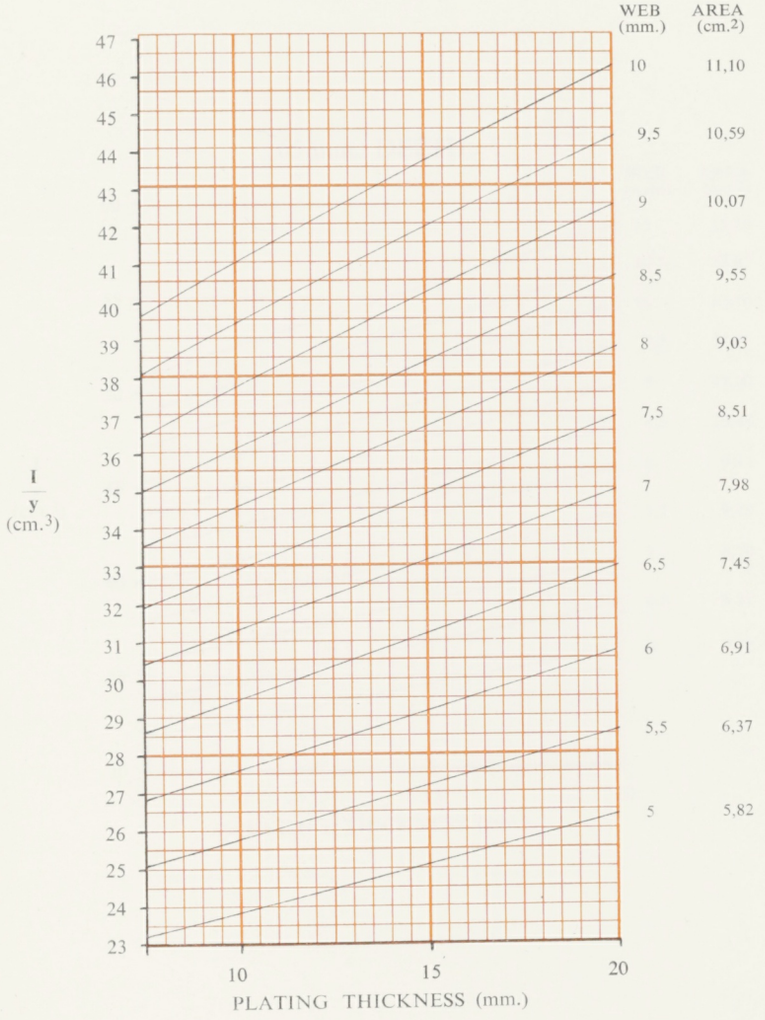
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

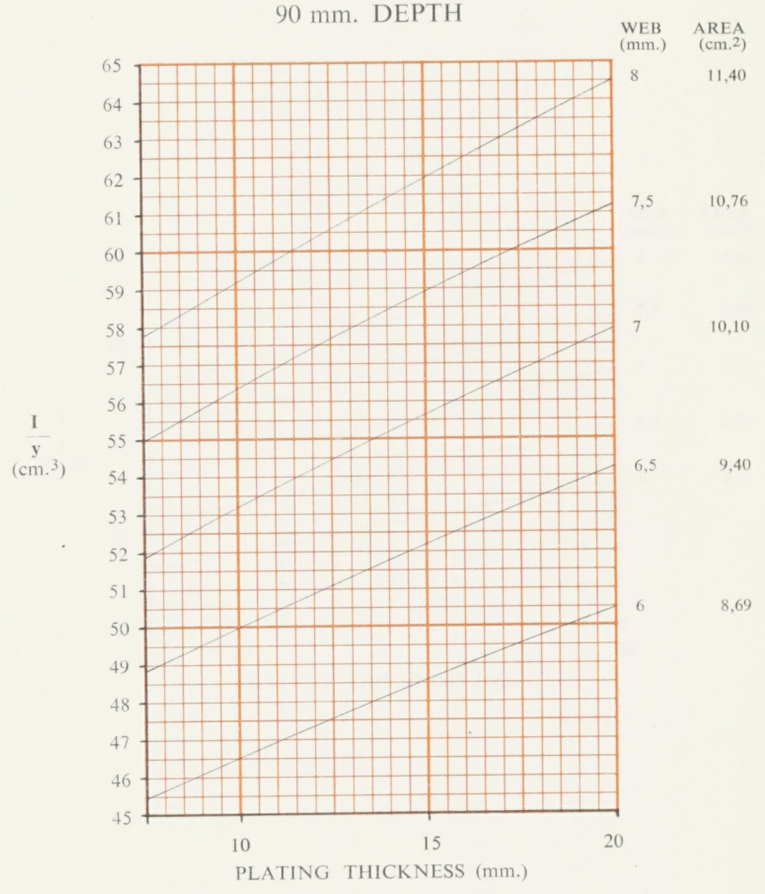


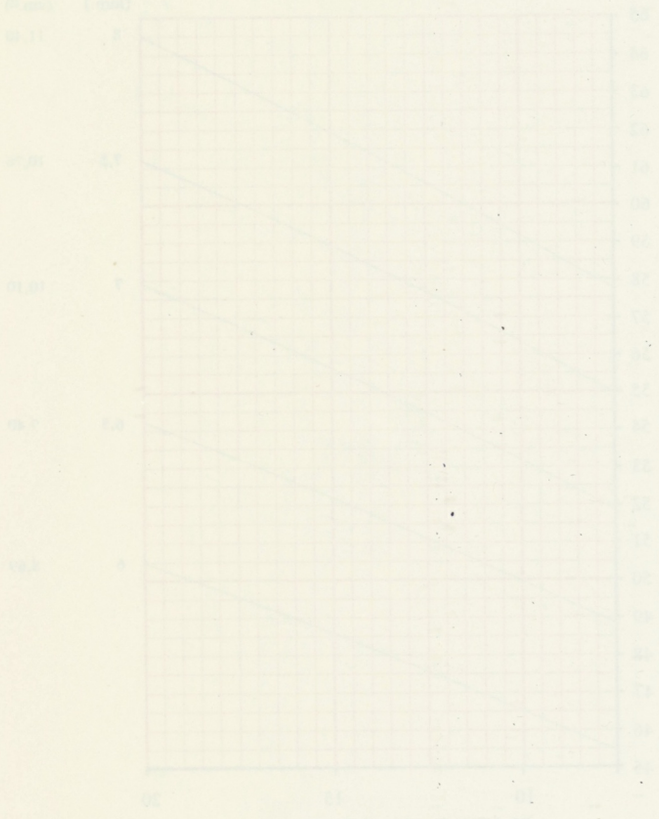
60 mm. FLANGE

60 mm. DEPTH



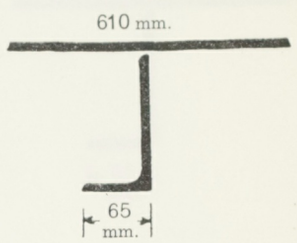
90 mm. DEPTH





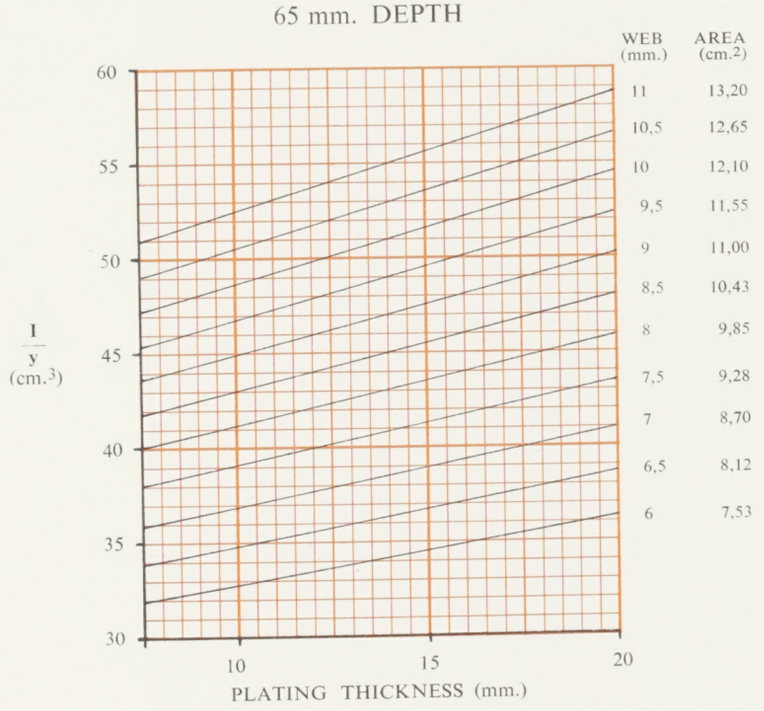
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

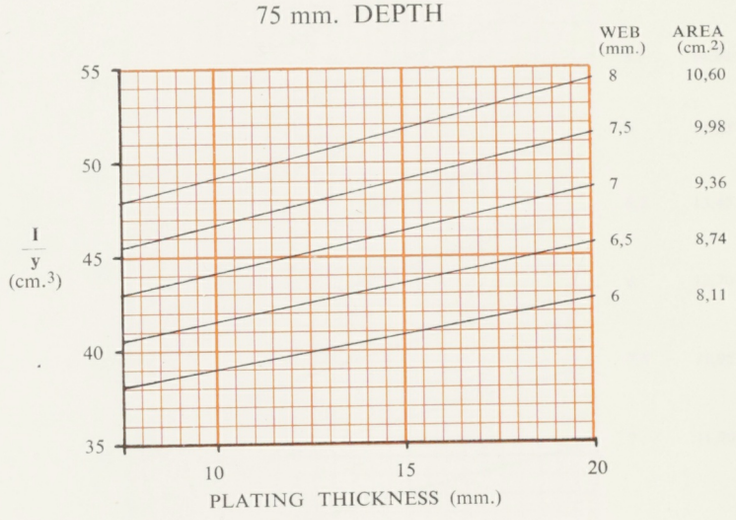


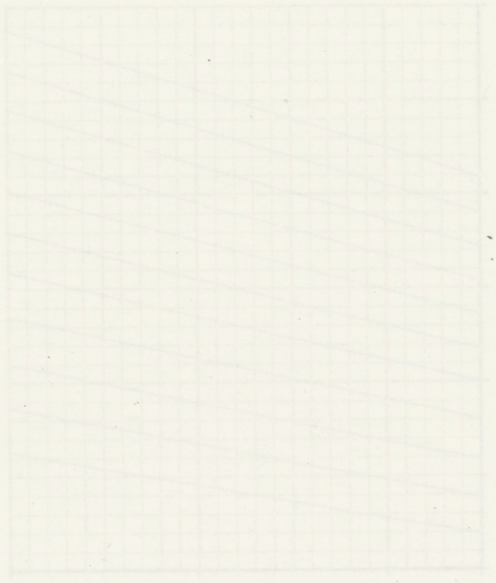
65 mm. FLANGE

65 mm. DEPTH



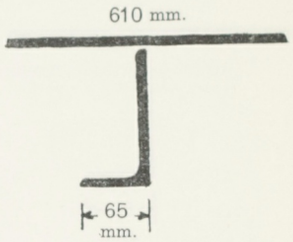
75 mm. DEPTH





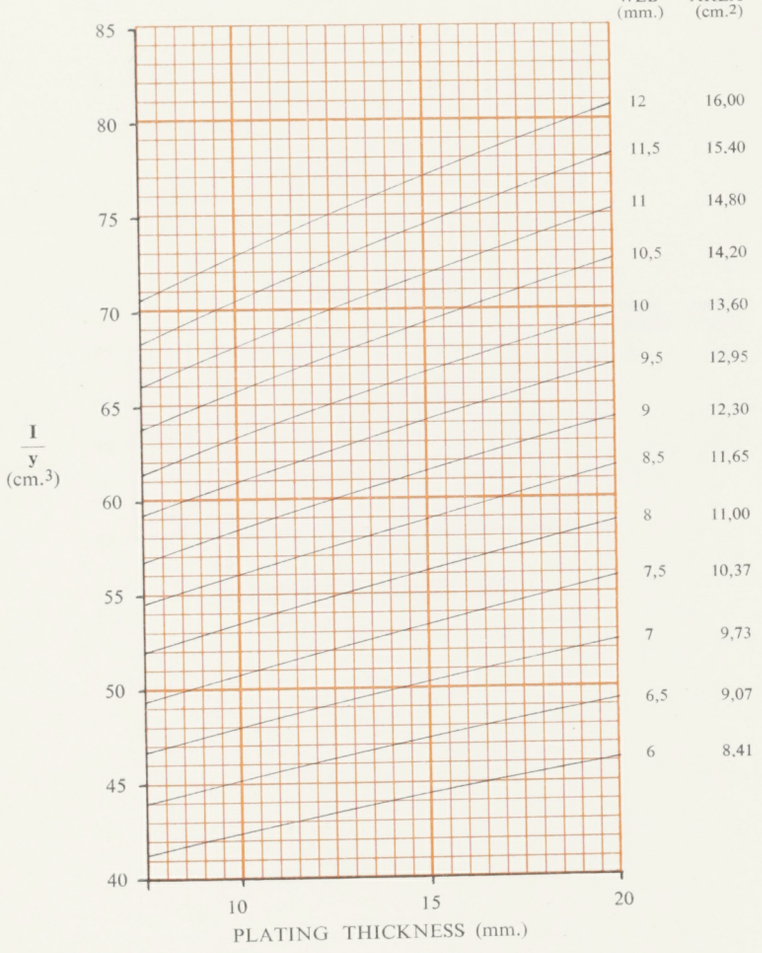
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

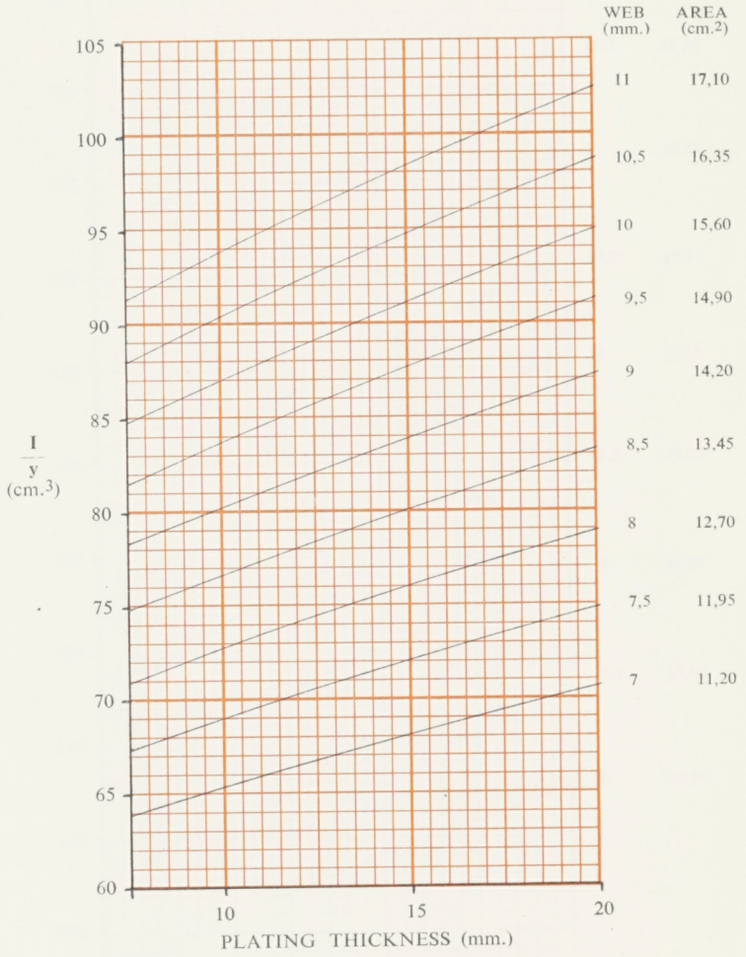


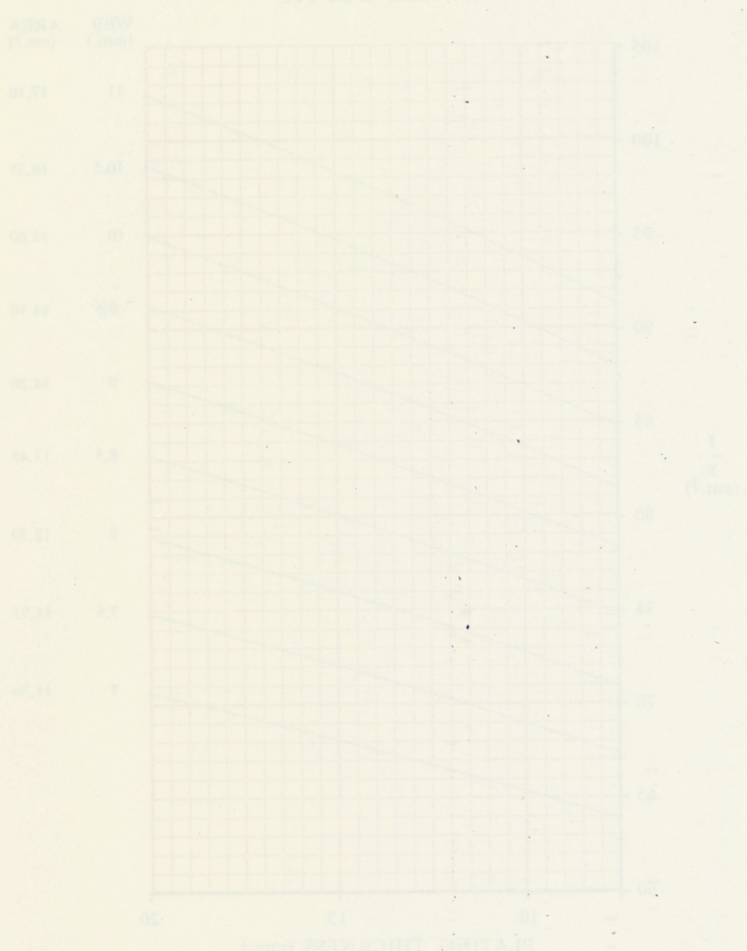
65 mm. FLANGE

80 mm. DEPTH



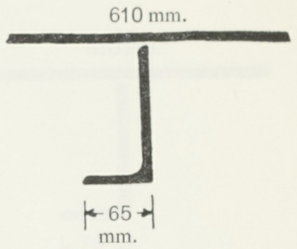
100 mm. DEPTH





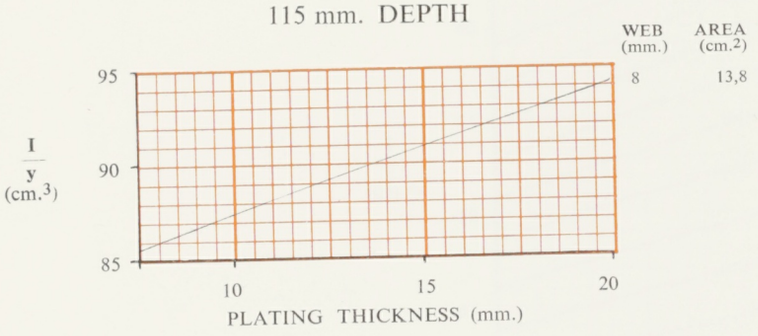
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

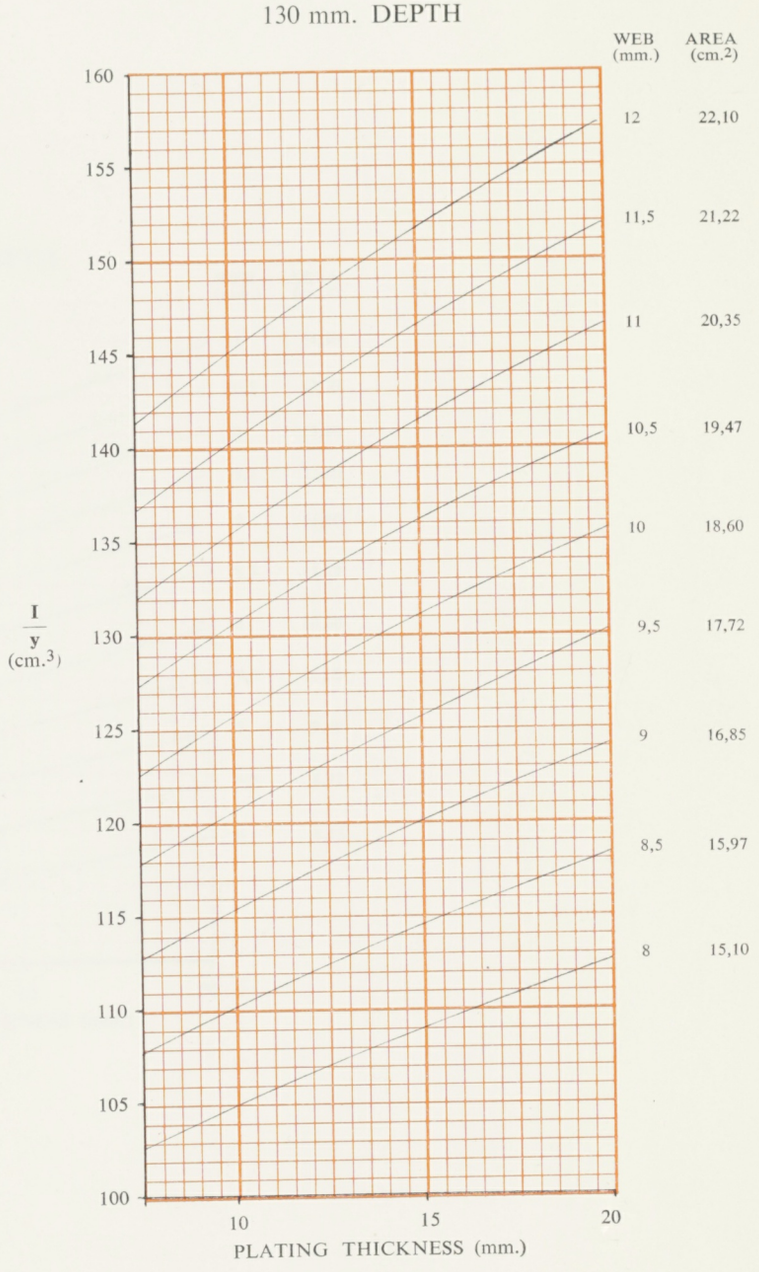


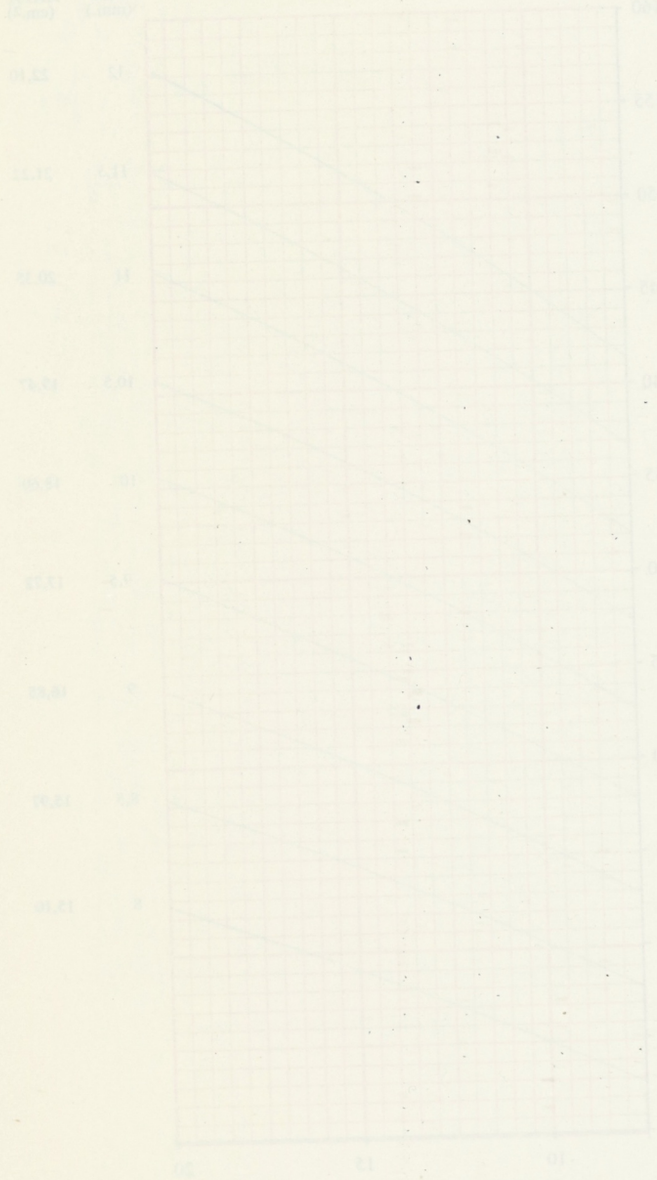
65 mm. FLANGE

115 mm. DEPTH



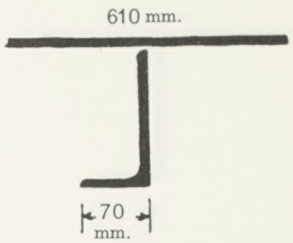
130 mm. DEPTH



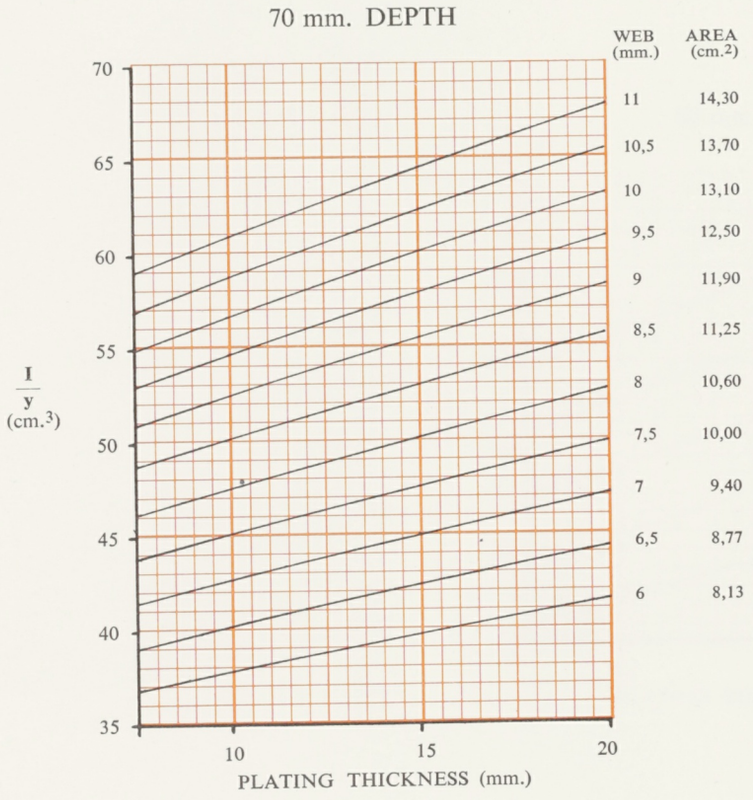


SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



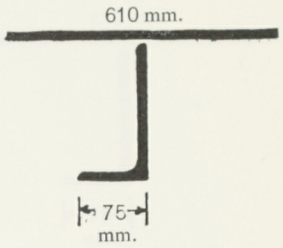
70 mm. FLANGE



J

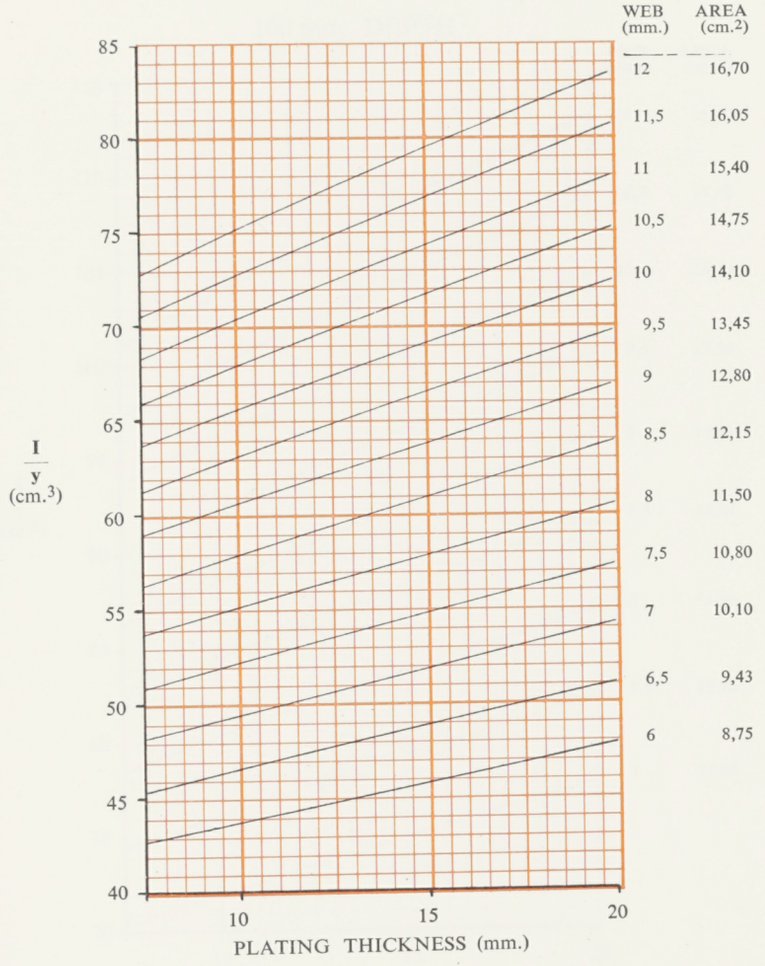
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

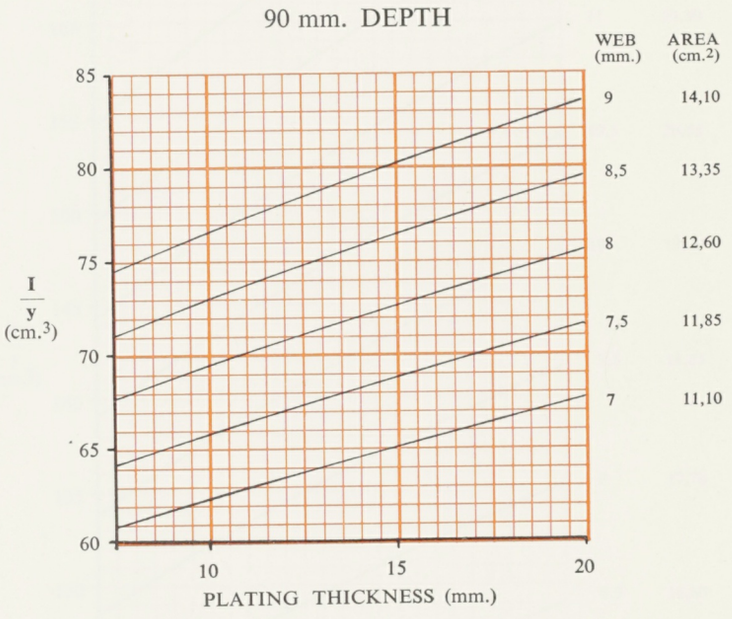


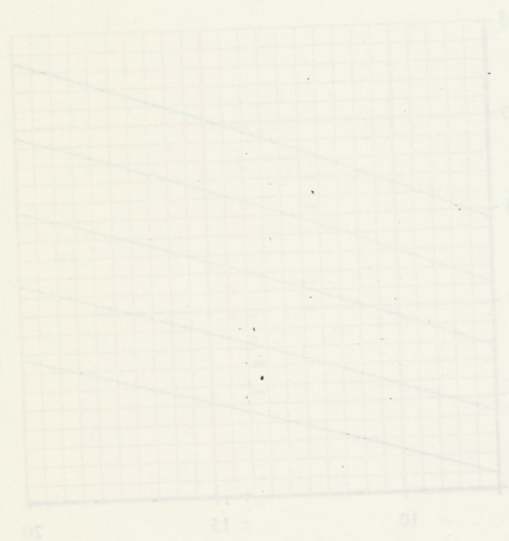
75 mm. FLANGE

75 mm. DEPTH



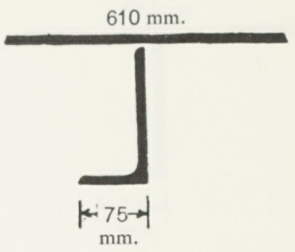
90 mm. DEPTH





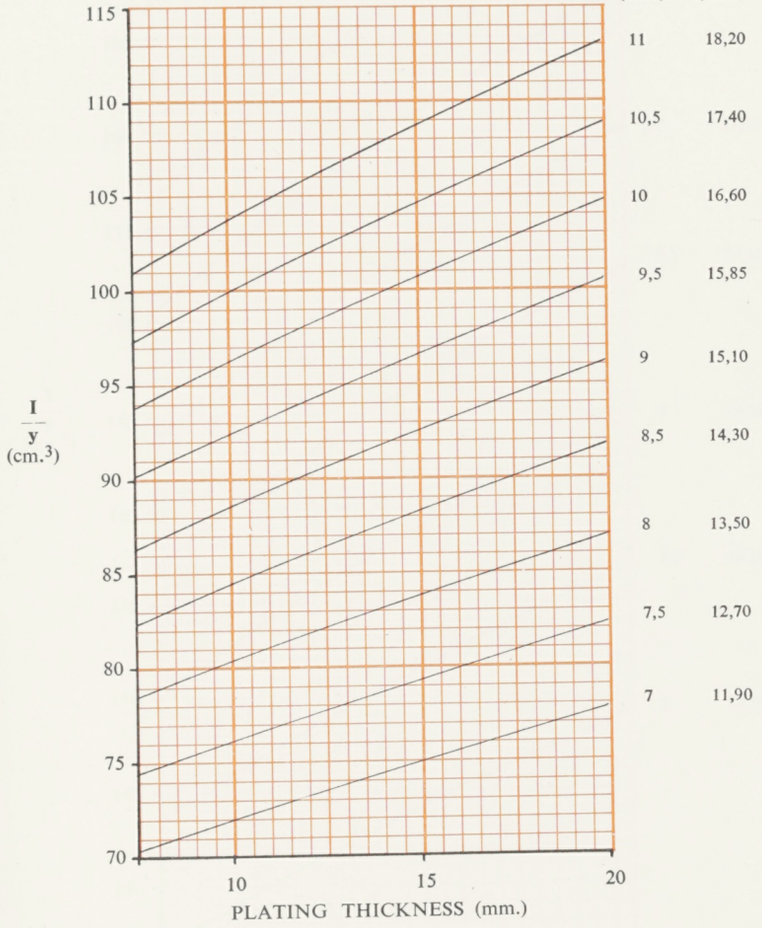
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



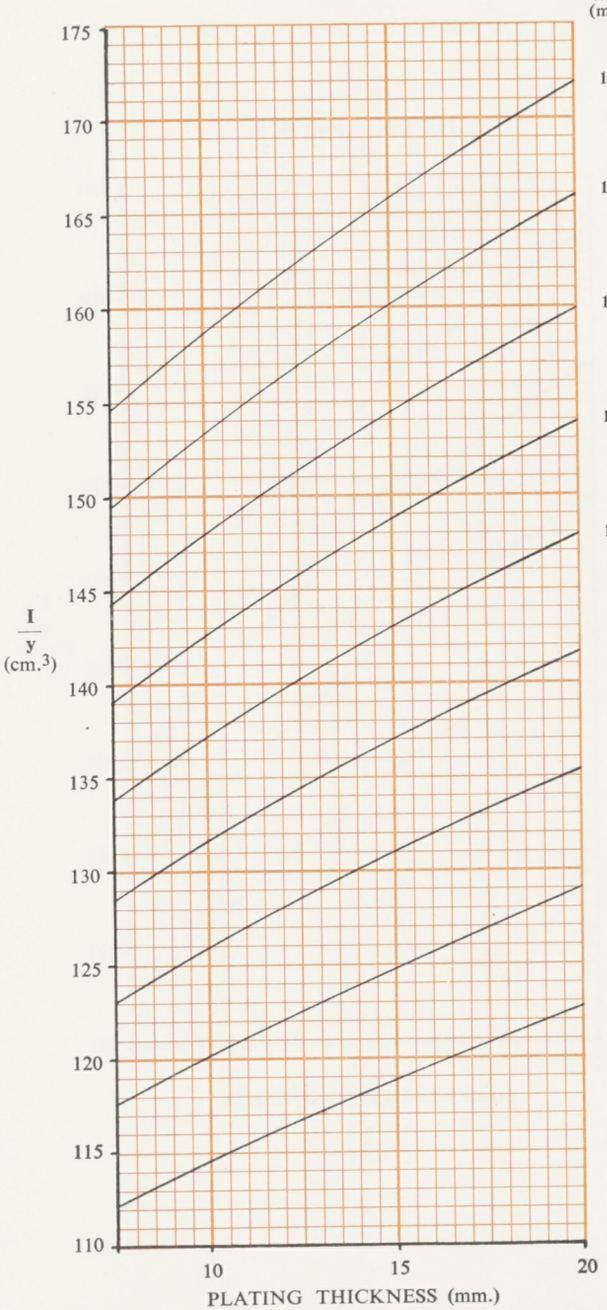
75 mm. FLANGE

100 mm. DEPTH



WEB (mm.)	AREA (cm.2)
11	18,20
10,5	17,40
10	16,60
9,5	15,85
9	15,10
8,5	14,30
8	13,50
7,5	12,70
7	11,90

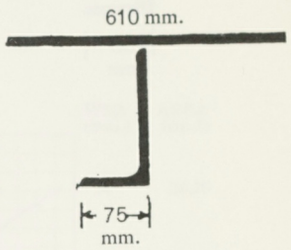
130 mm. DEPTH



WEB (mm.)	AREA (cm.2)
12	23,30
11,5	22,40
11	21,50
10,5	20,55
10	19,60
9,5	18,65
9	17,70
8,5	16,80
8	15,90

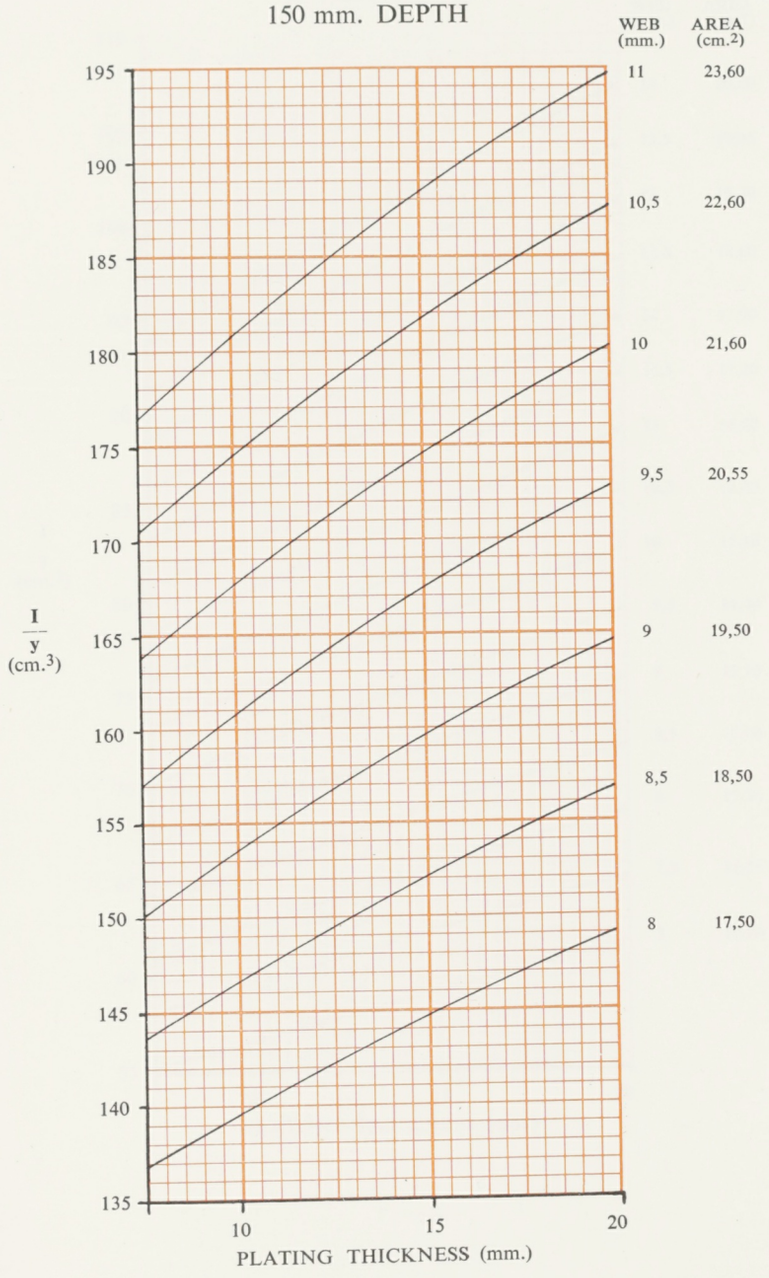
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

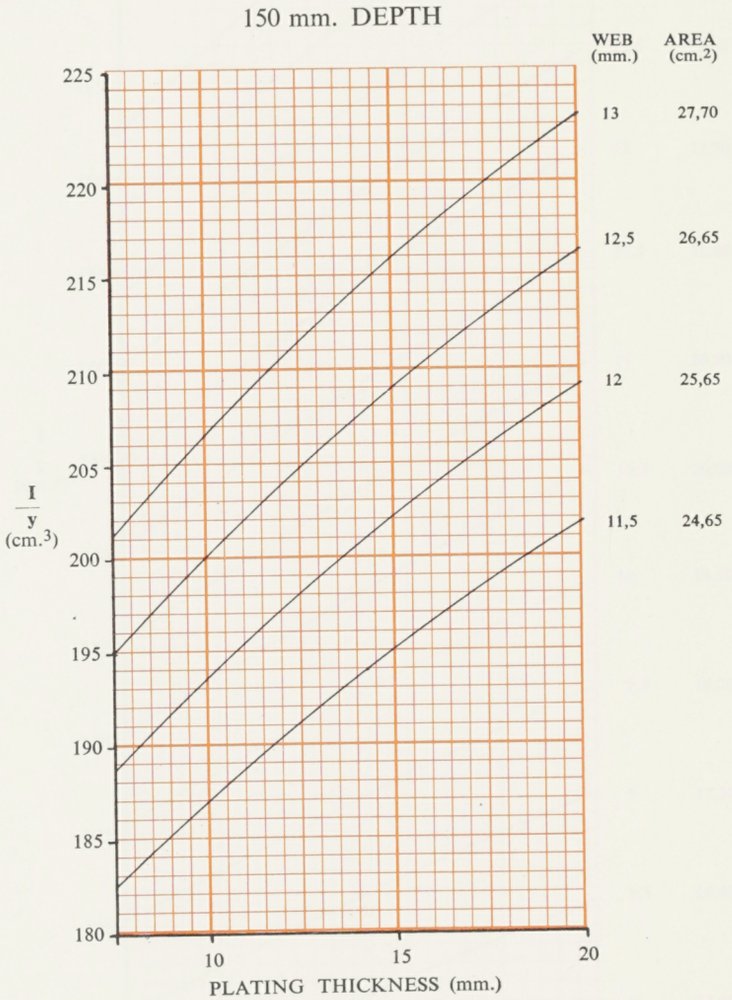


75 mm. FLANGE

150 mm. DEPTH

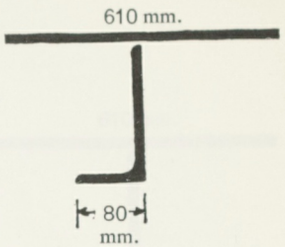


150 mm. DEPTH



SECTION MODULUS AND AREA OF INVERTED ANGLES

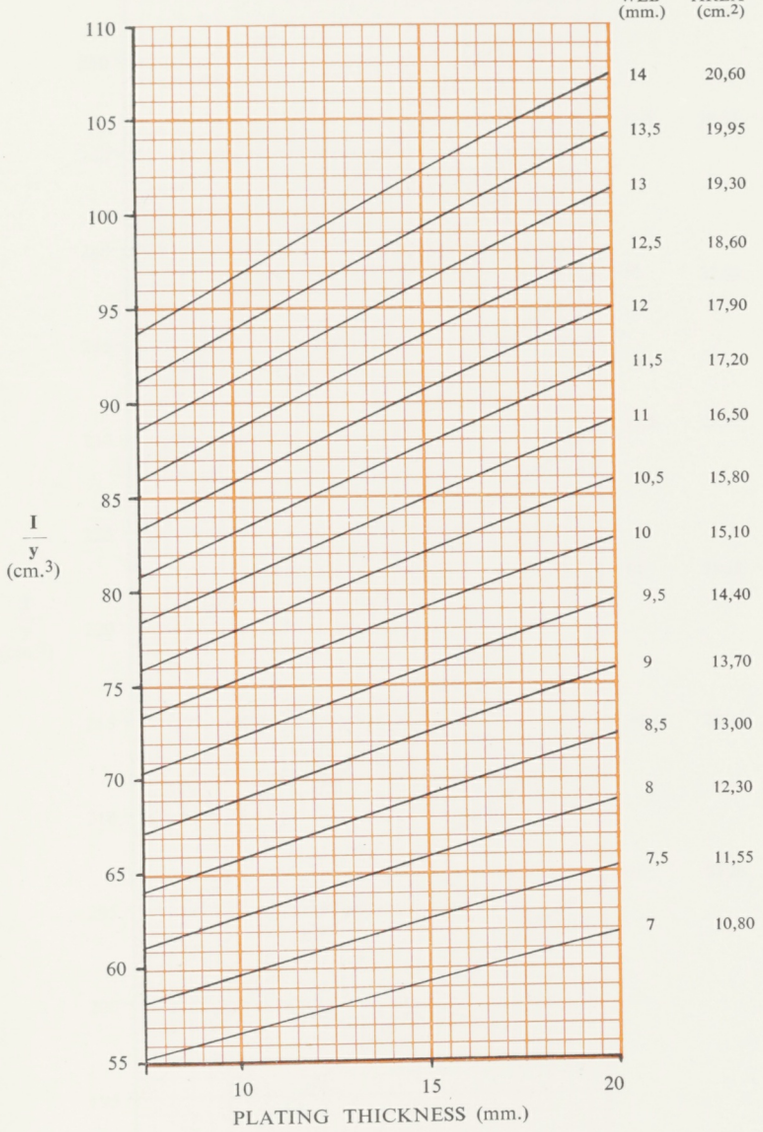
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



80 mm. FLANGE

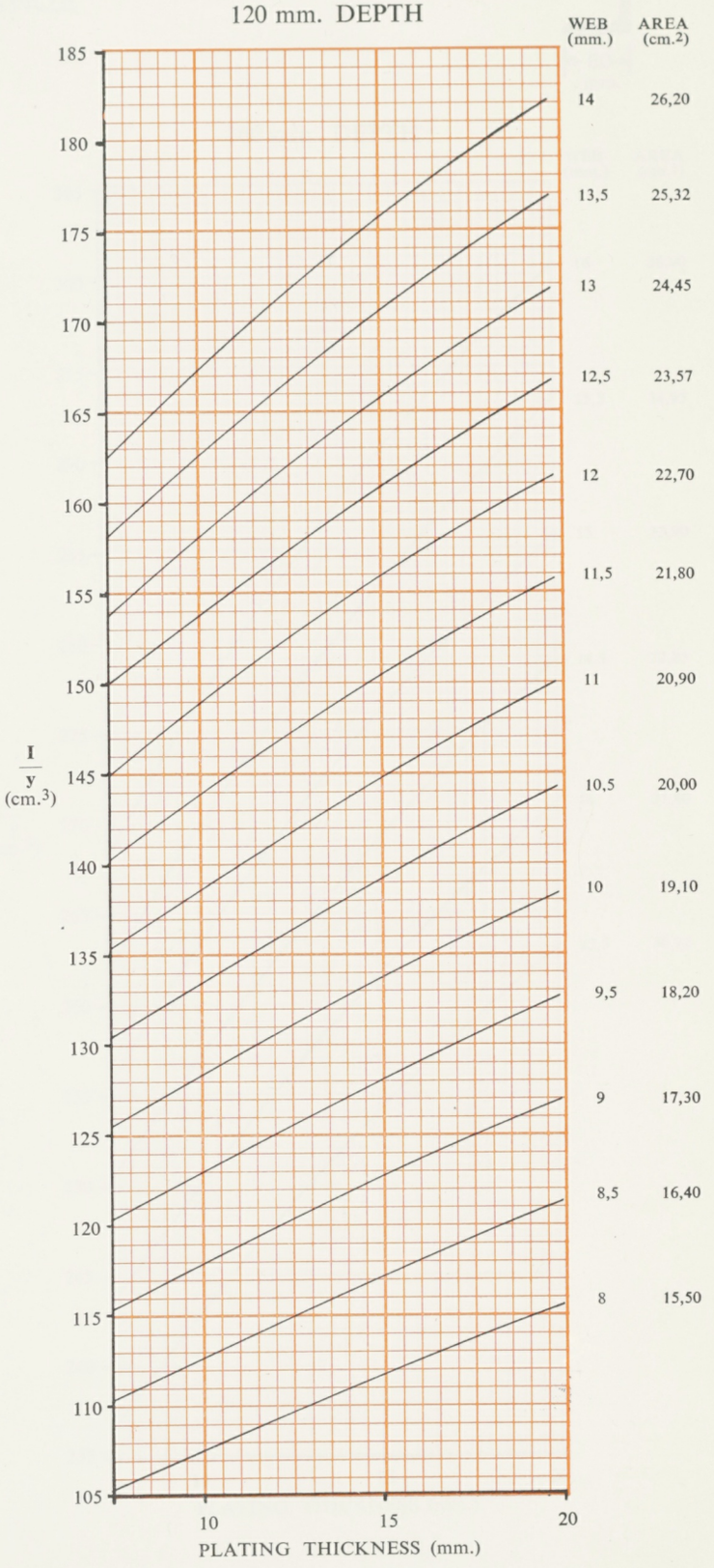
80 mm. DEPTH

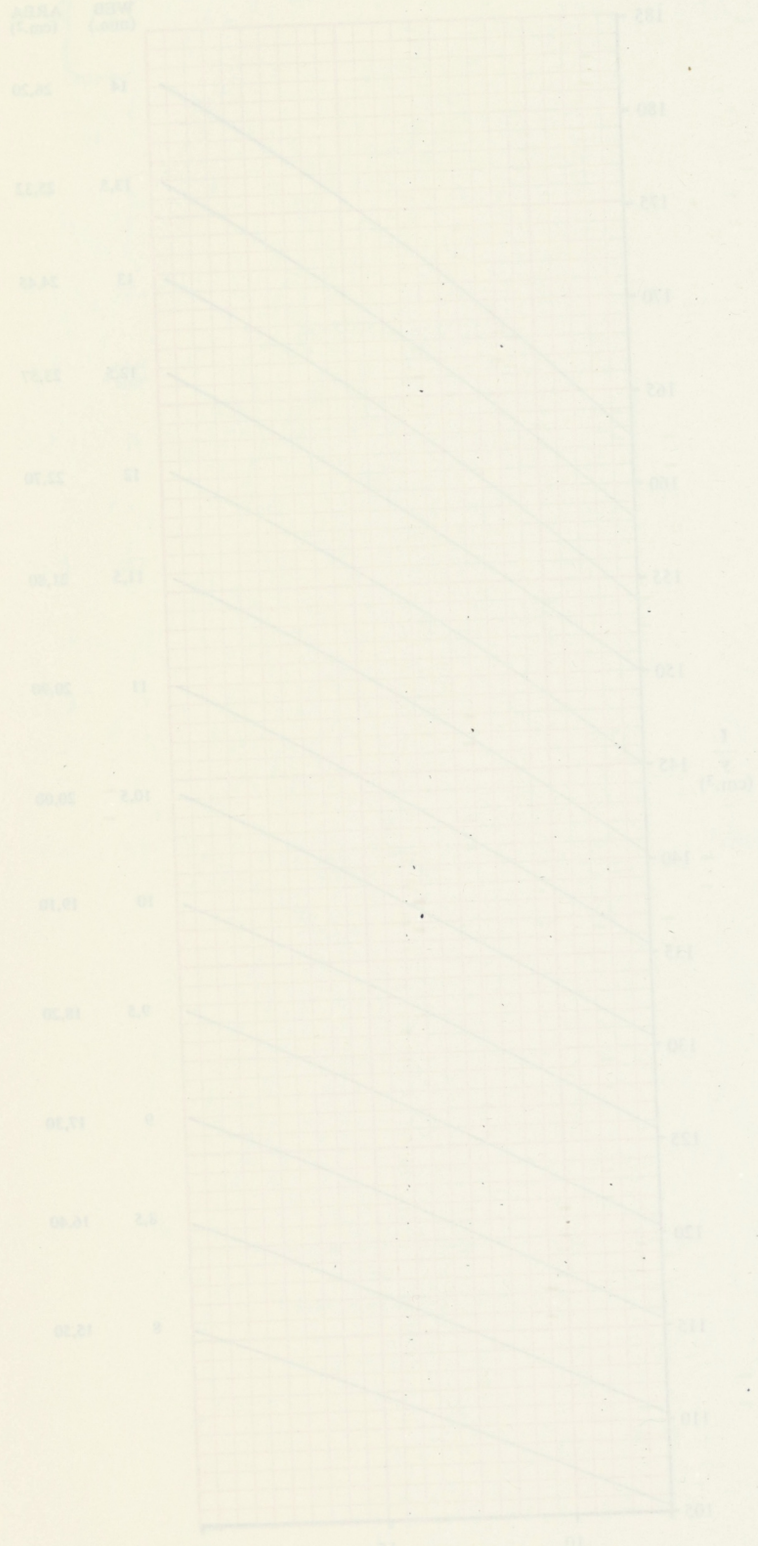
WEB (mm.)	AREA (cm.²)
14	20,60
13,5	19,95
13	19,30
12,5	18,60
12	17,90
11,5	17,20
11	16,50
10,5	15,80
10	15,10
9,5	14,40
9	13,70
8,5	13,00
8	12,30
7,5	11,55
7	10,80



120 mm. DEPTH

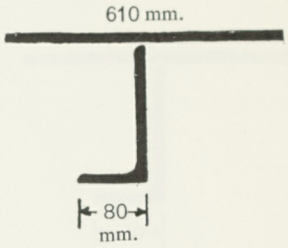
WEB (mm.)	AREA (cm.²)
14	26,20
13,5	25,32
13	24,45
12,5	23,57
12	22,70
11,5	21,80
11	20,90
10,5	20,00
10	19,10
9,5	18,20
9	17,30
8,5	16,40
8	15,50





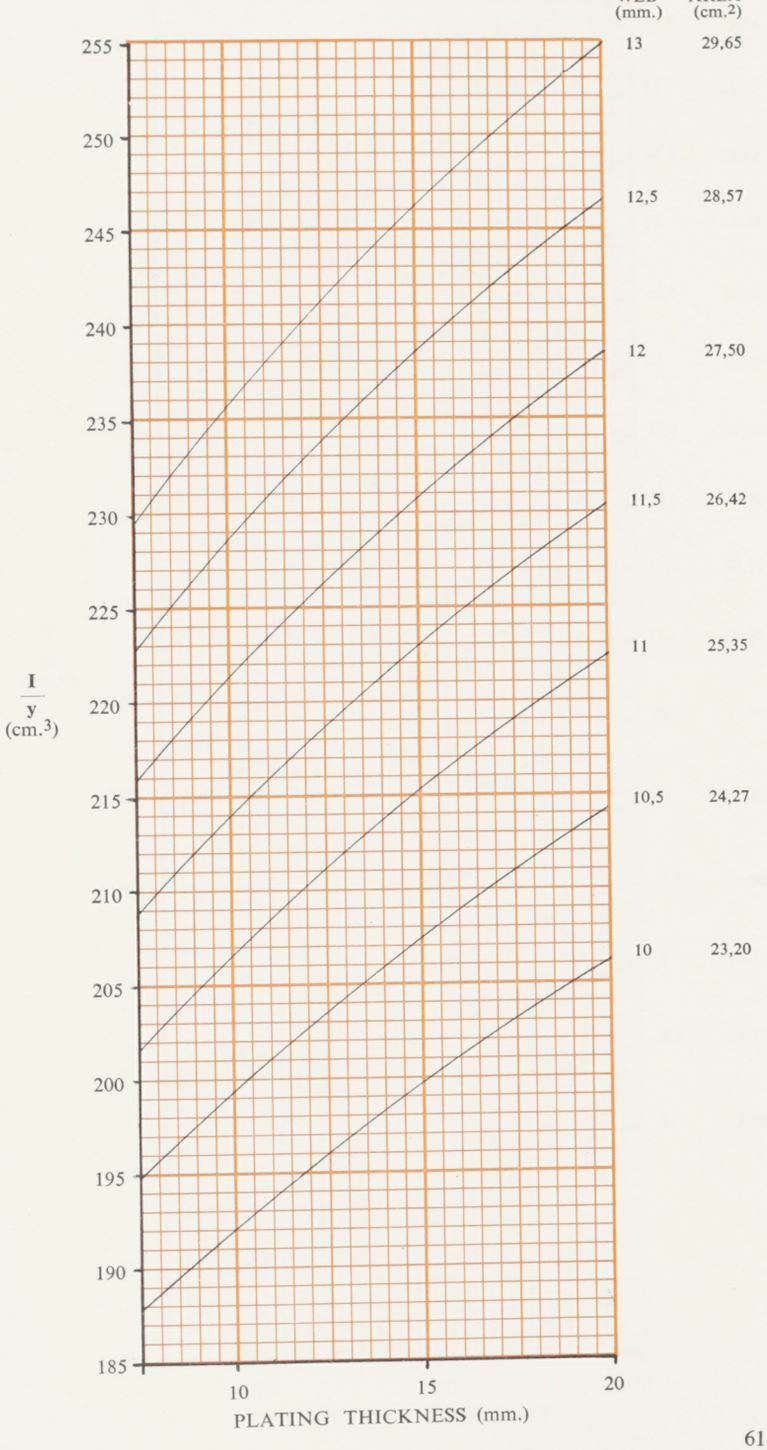
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

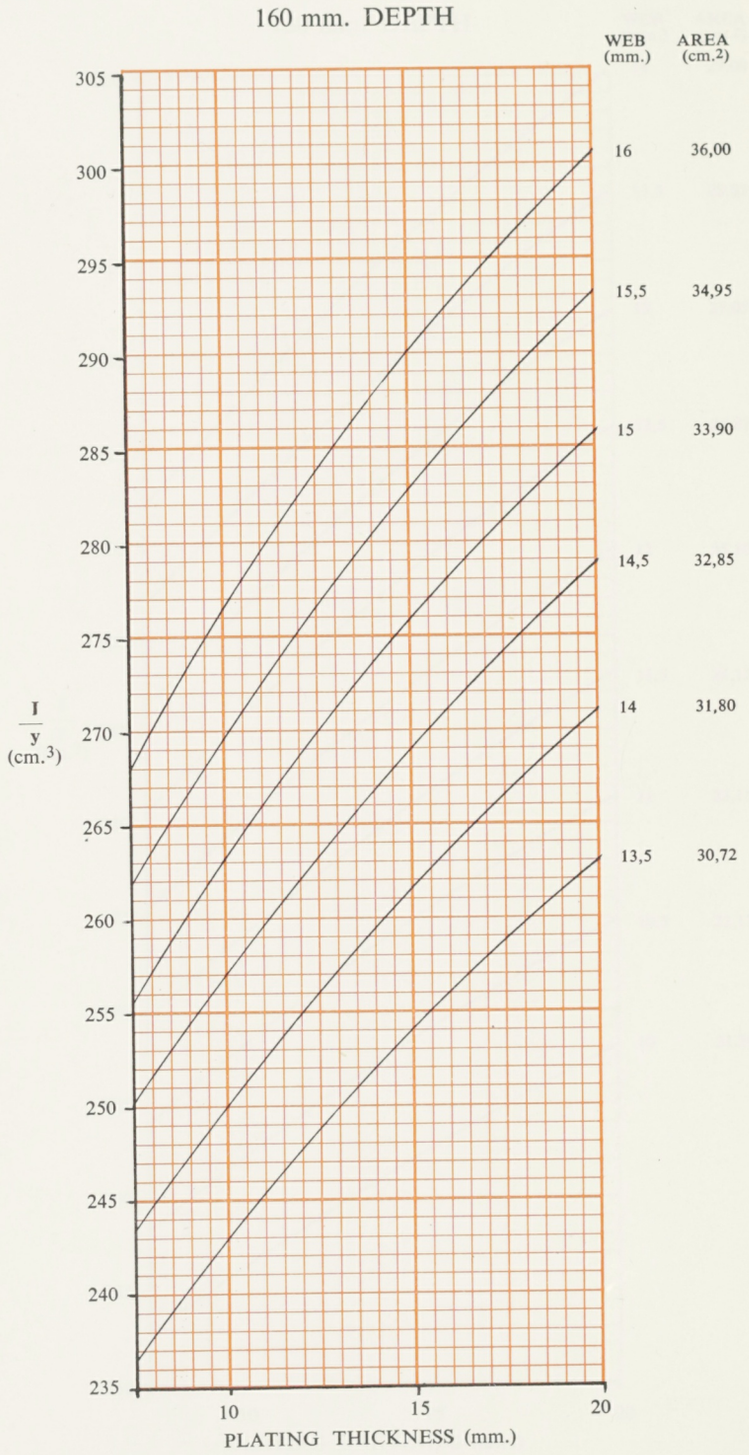


80 mm. FLANGE

160 mm. DEPTH

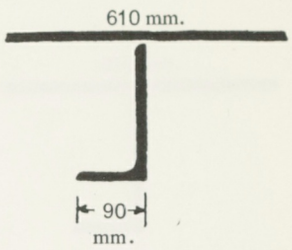


160 mm. DEPTH



SECTION MODULUS AND AREA OF INVERTED ANGLES

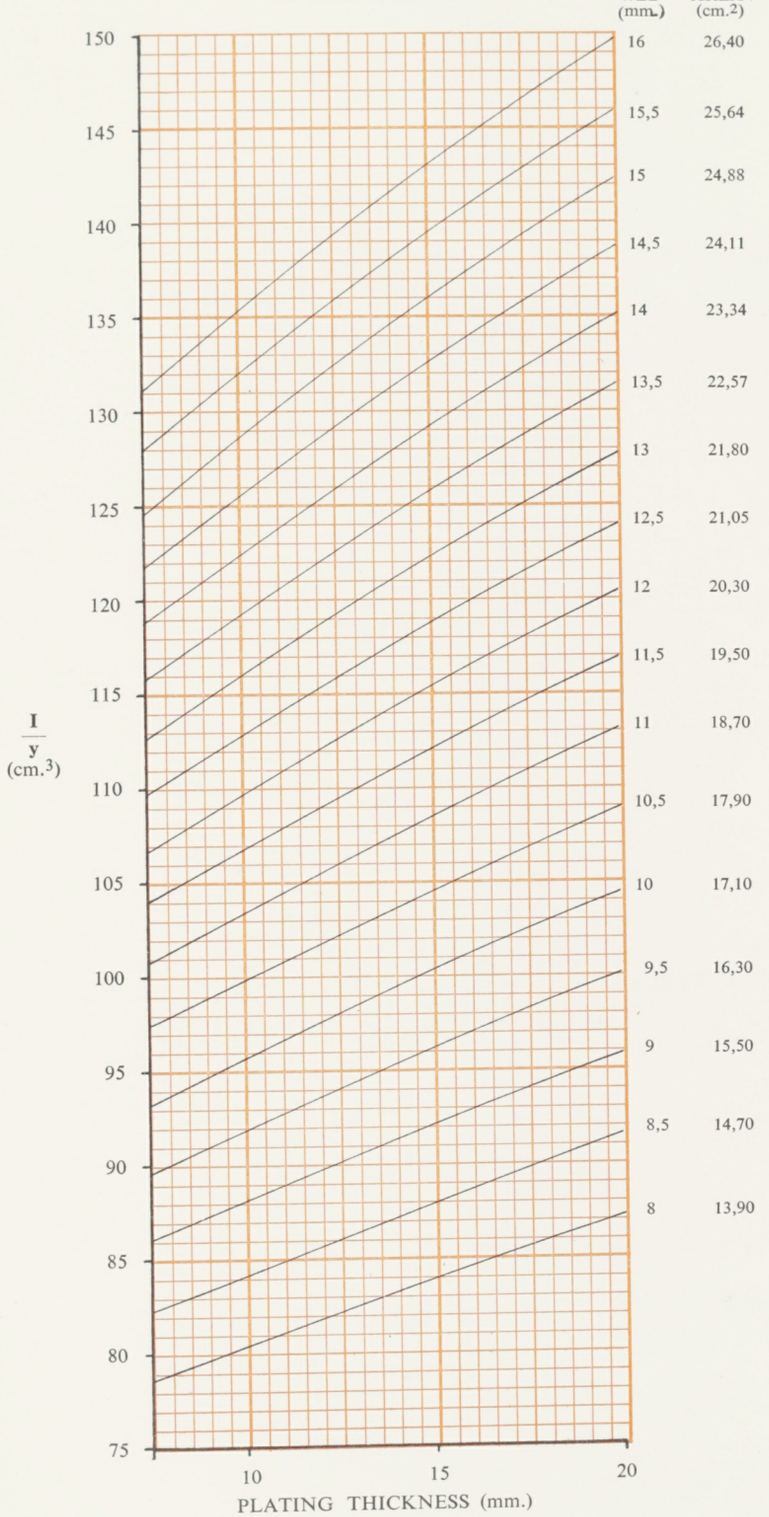
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



90 mm. FLANGE

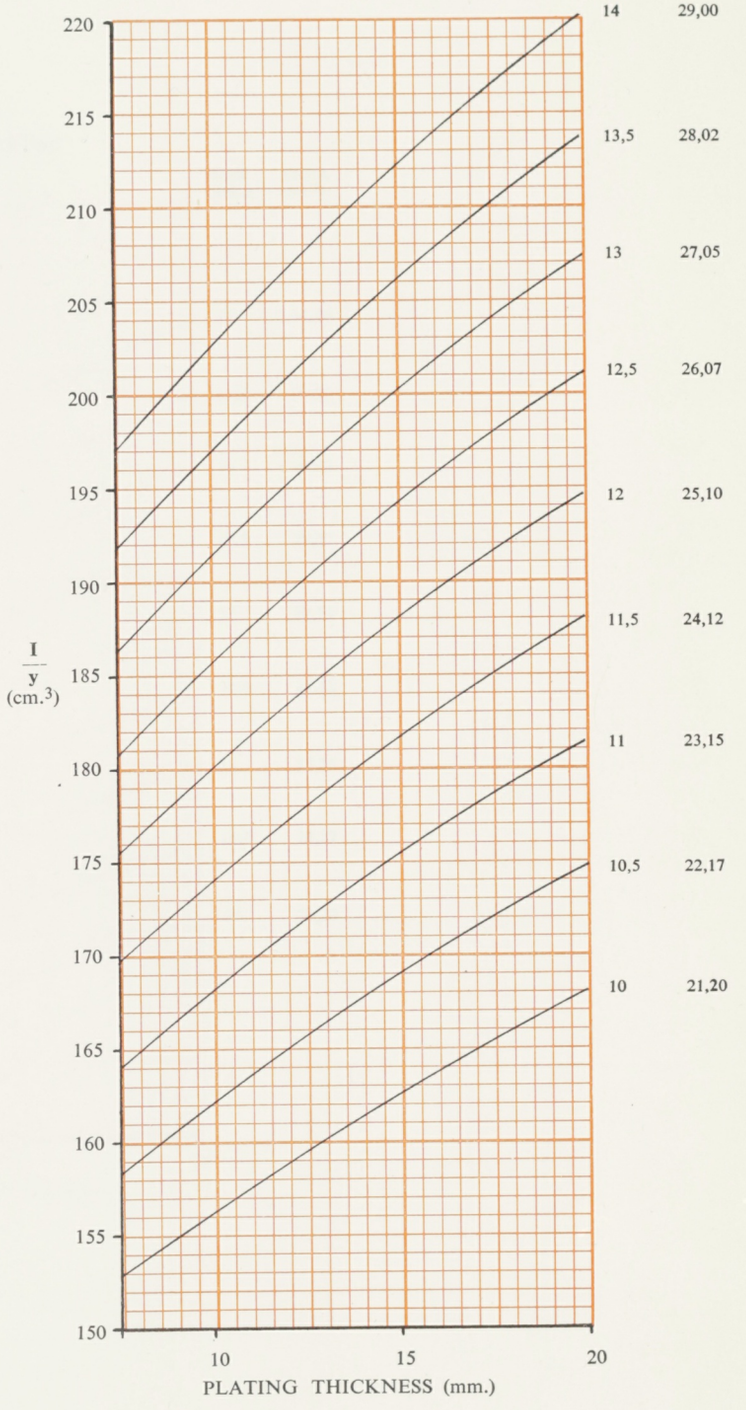
90 mm. DEPTH

WEB (mm.)	AREA (cm.²)
16	26,40
15,5	25,64
15	24,88
14,5	24,11
14	23,34
13,5	22,57
13	21,80
12,5	21,05
12	20,30
11,5	19,50
11	18,70
10,5	17,90
10	17,10
9,5	16,30
9	15,50
8,5	14,70
8	13,90



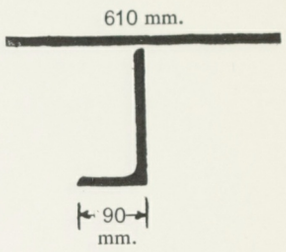
130 mm. DEPTH

WEB (mm.)	AREA (cm.²)
14	29,00
13,5	28,02
13	27,05
12,5	26,07
12	25,10
11,5	24,12
11	23,15
10,5	22,17
10	21,20



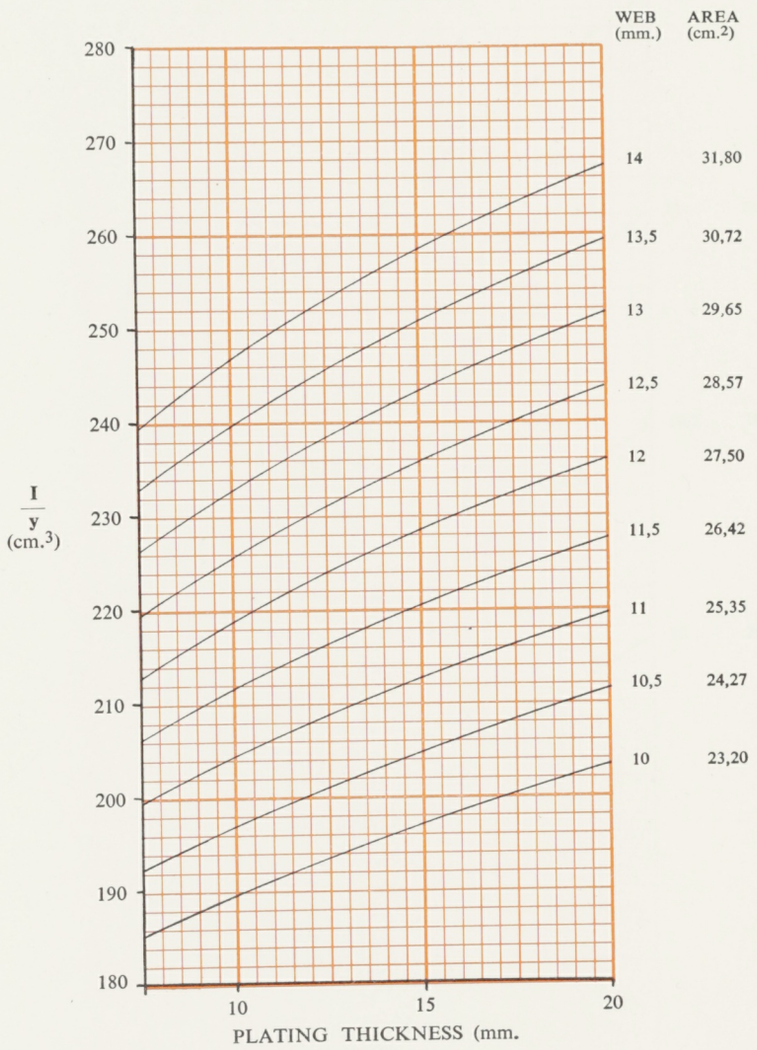
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



90 mm. FLANGE

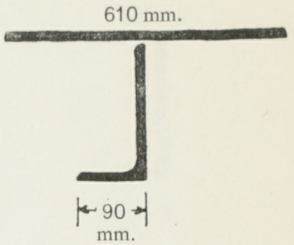
150 mm. DEPTH



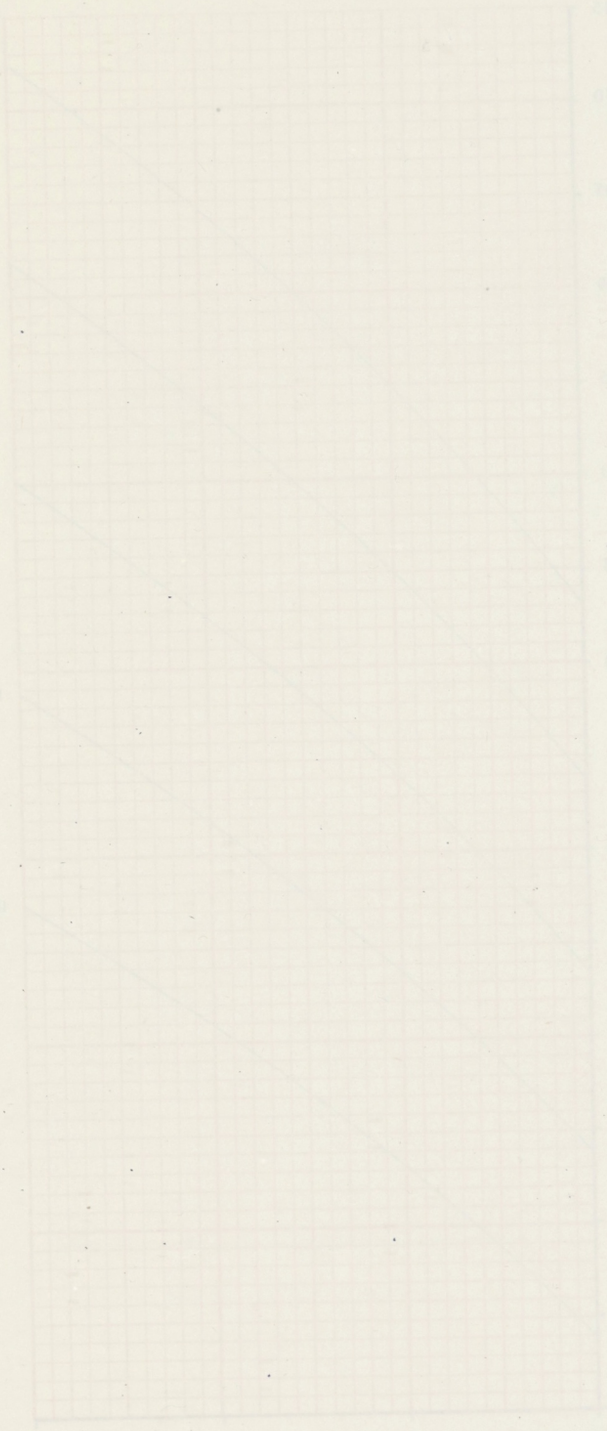
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

90 mm. FLANGE

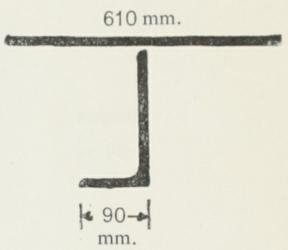


180 mm. DEPTH (*See Continuation*)



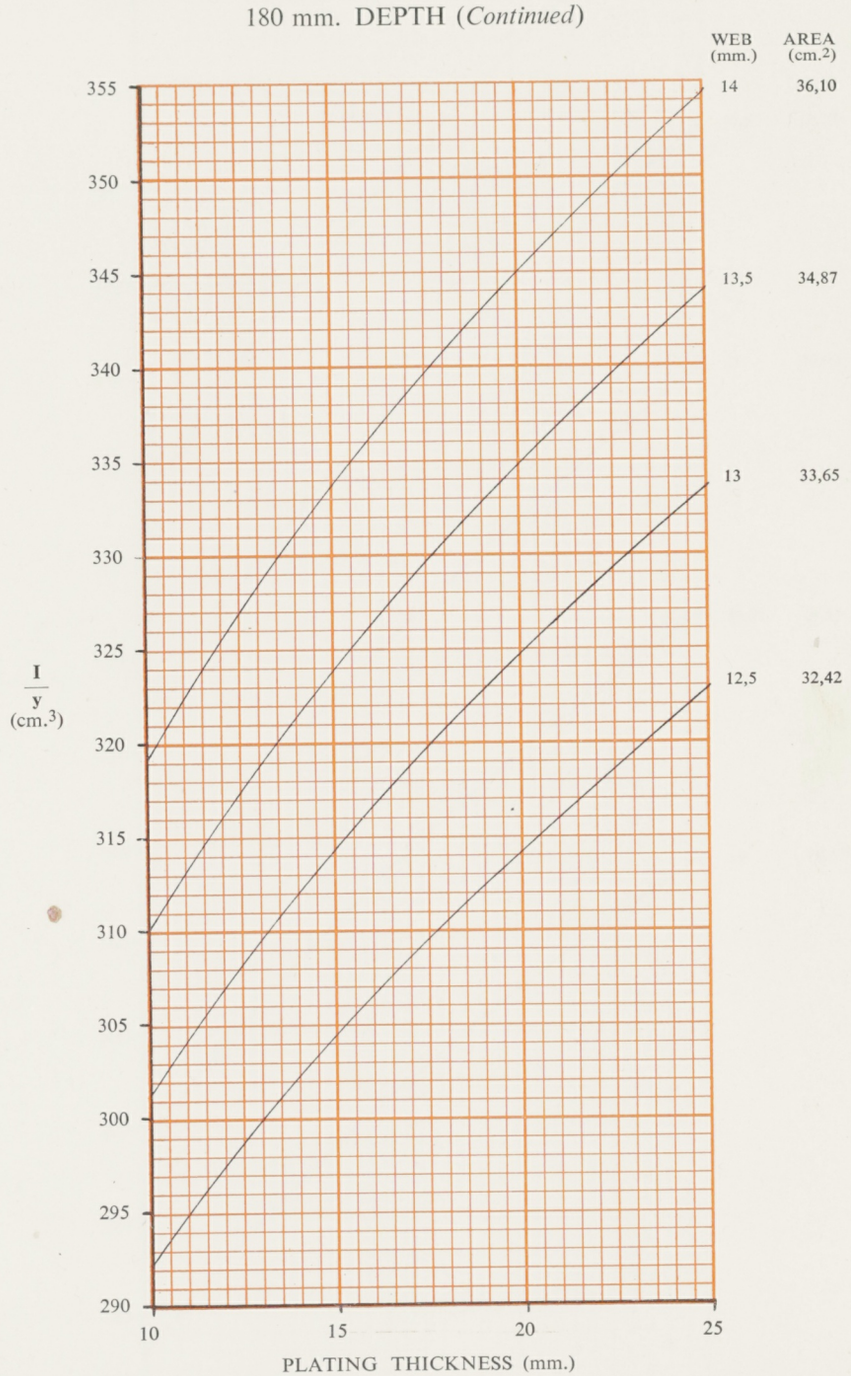
SECTION MODULUS AND AREA OF INVERTED ANGLES

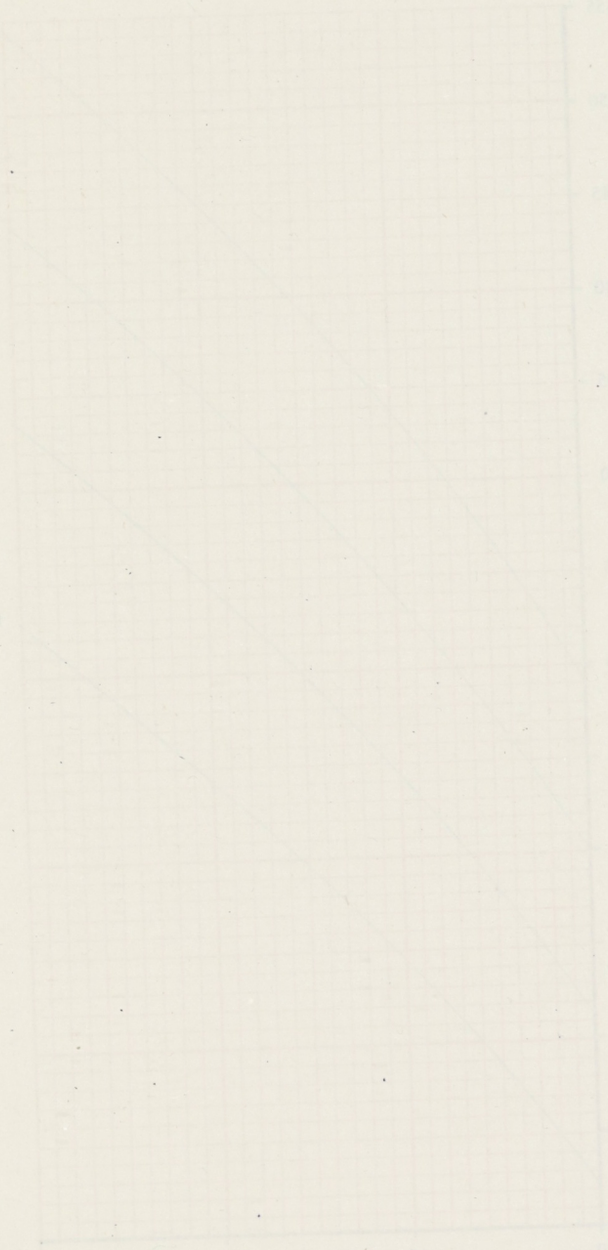
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



90 mm. FLANGE

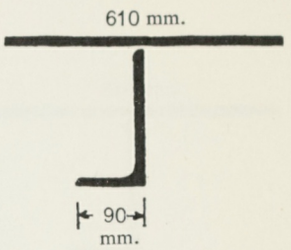
180 mm. DEPTH (*Continued*)





SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



90 mm. FLANGE

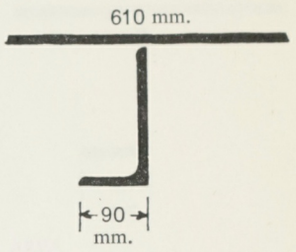
200 mm. DEPTH

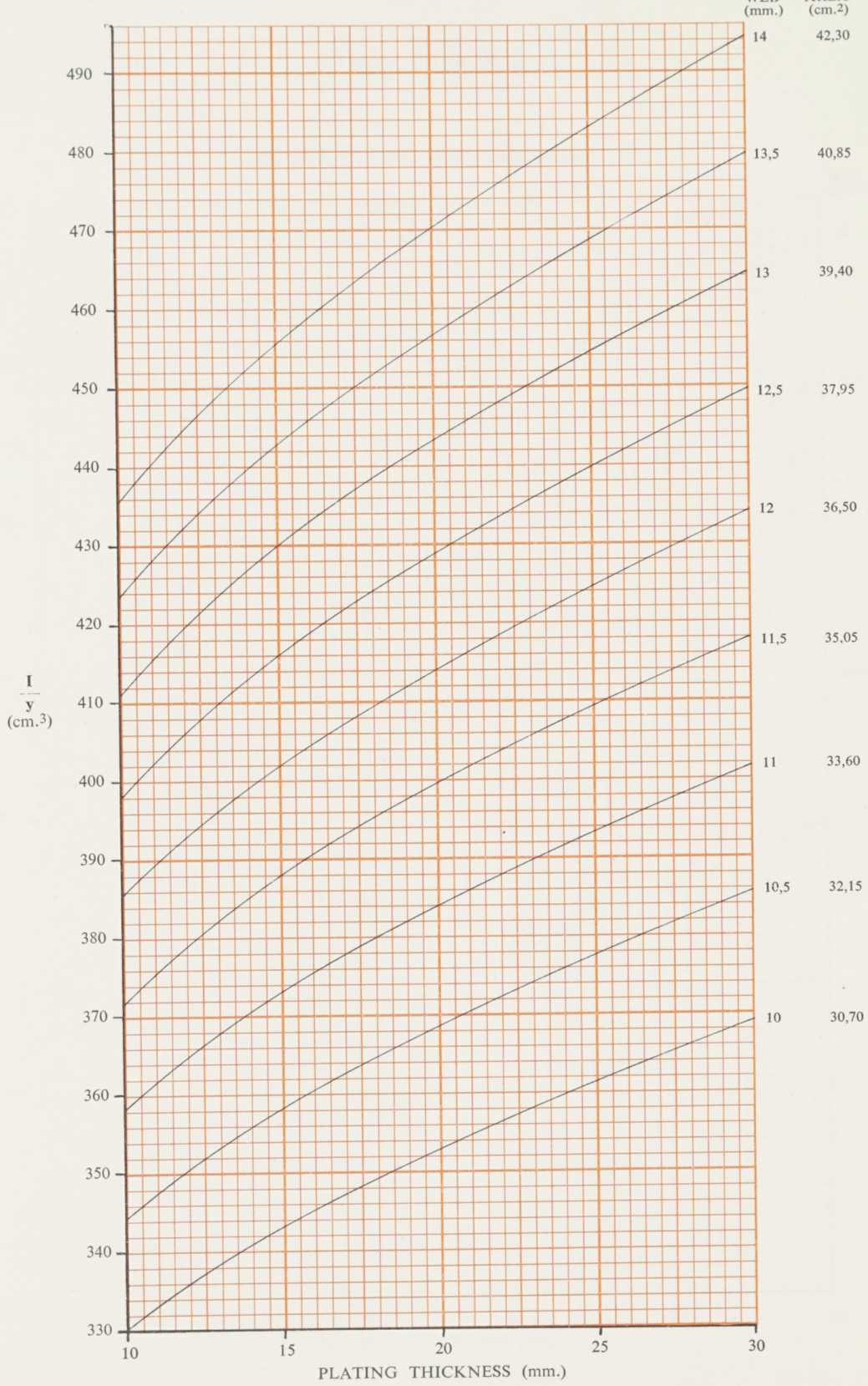
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

90 mm. FLANGE

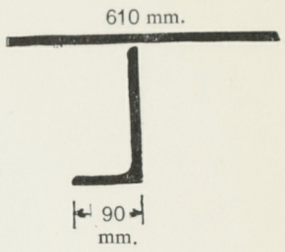
225 mm. DEPTH





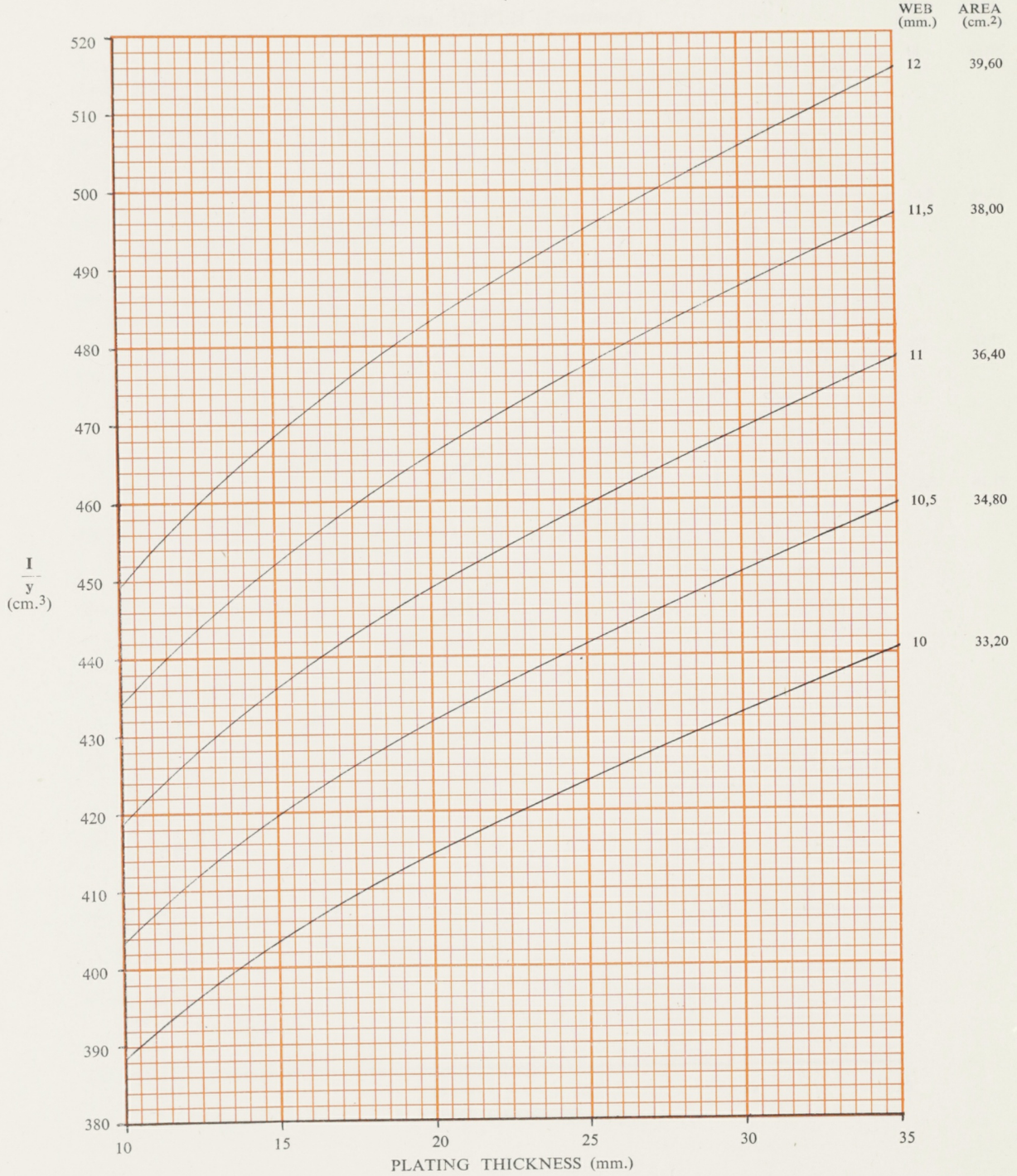
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



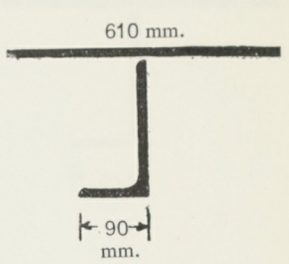
90 mm. FLANGE

250 mm. DEPTH (*See Continuation*)



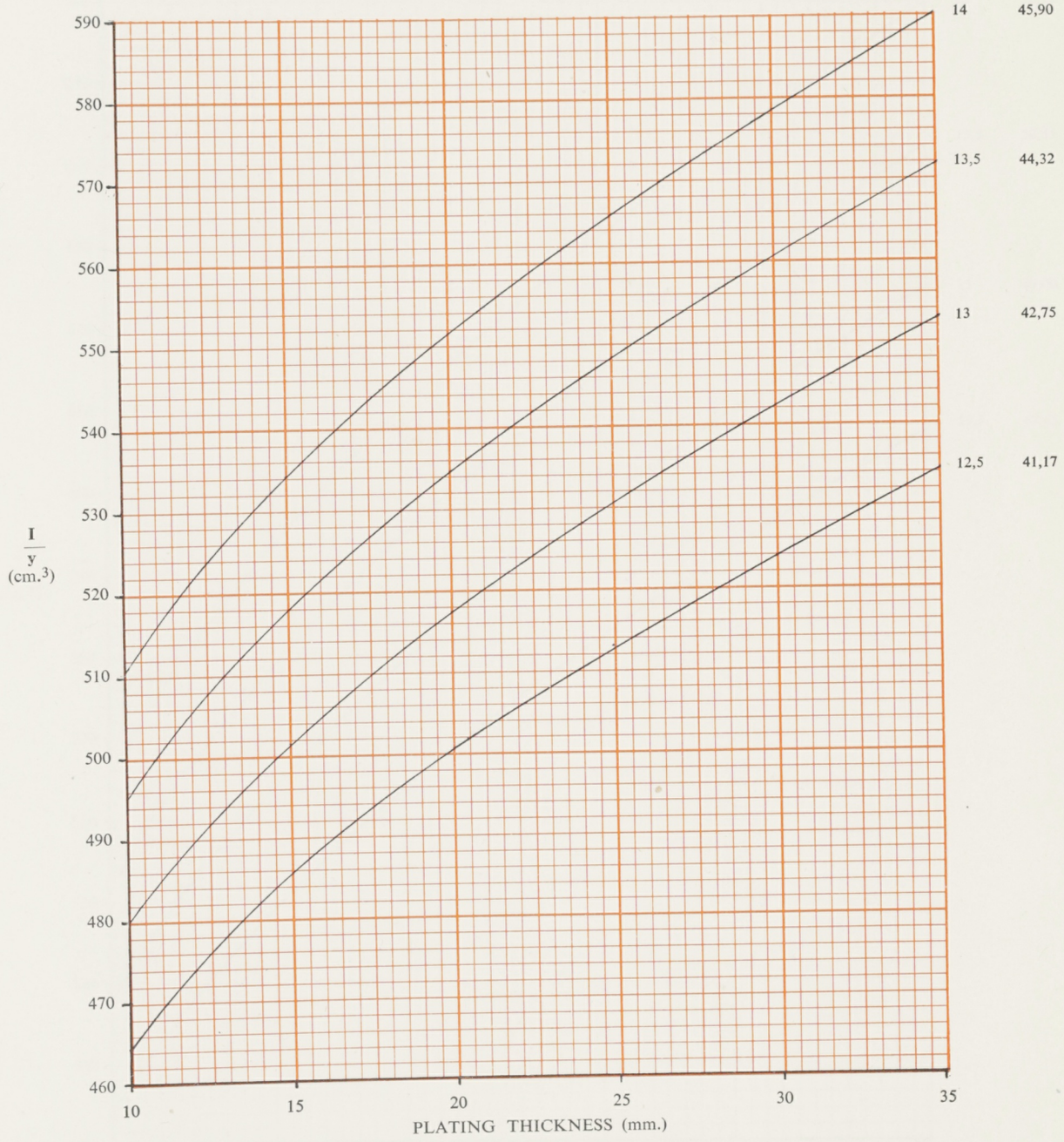
SECTION MODULUS AND AREA OF INVERTED ANGLES

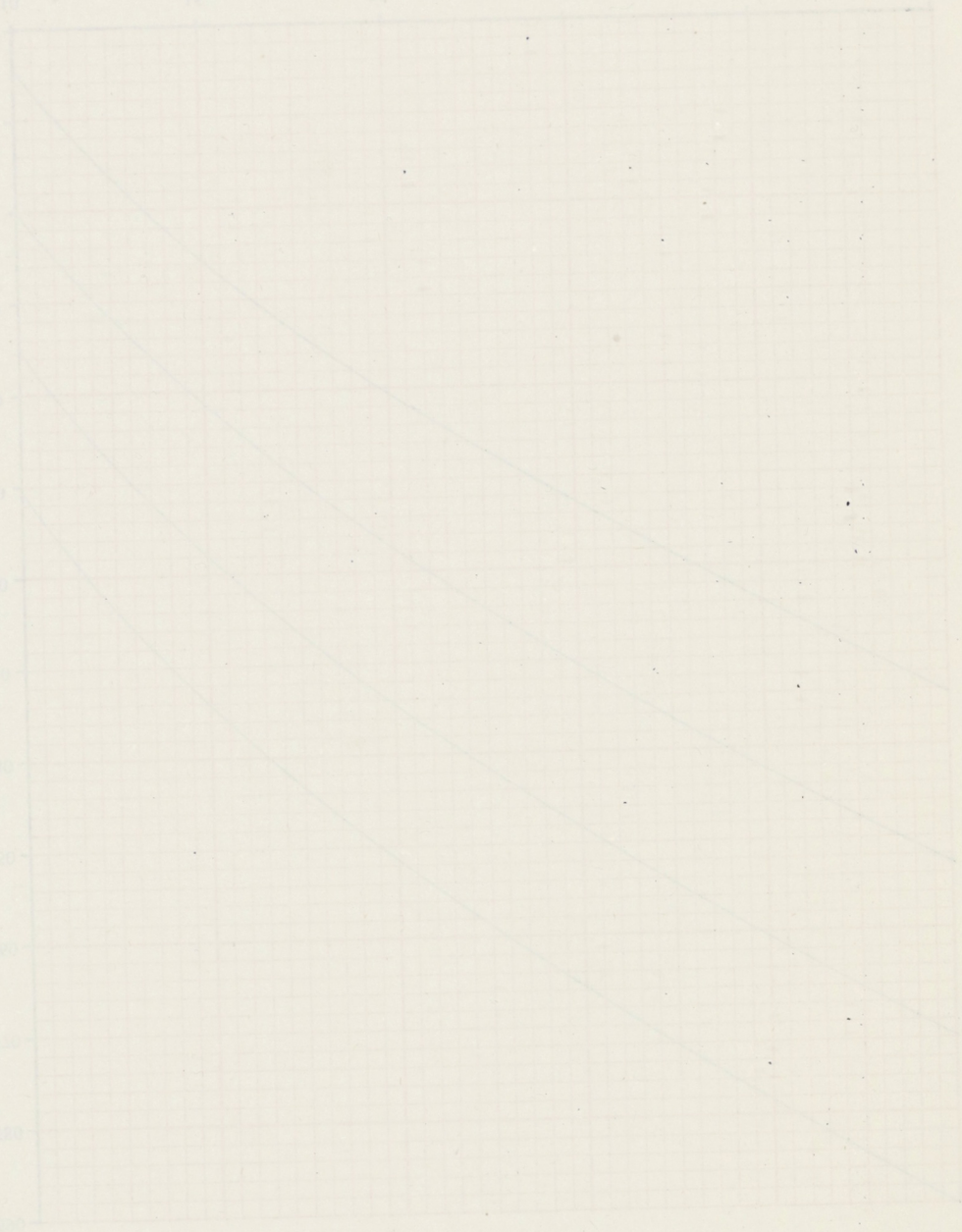
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



90 mm. FLANGE

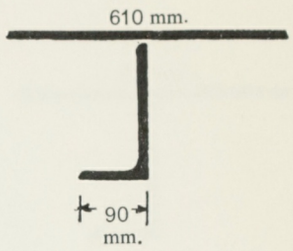
250 mm. DEPTH (*Continued*)





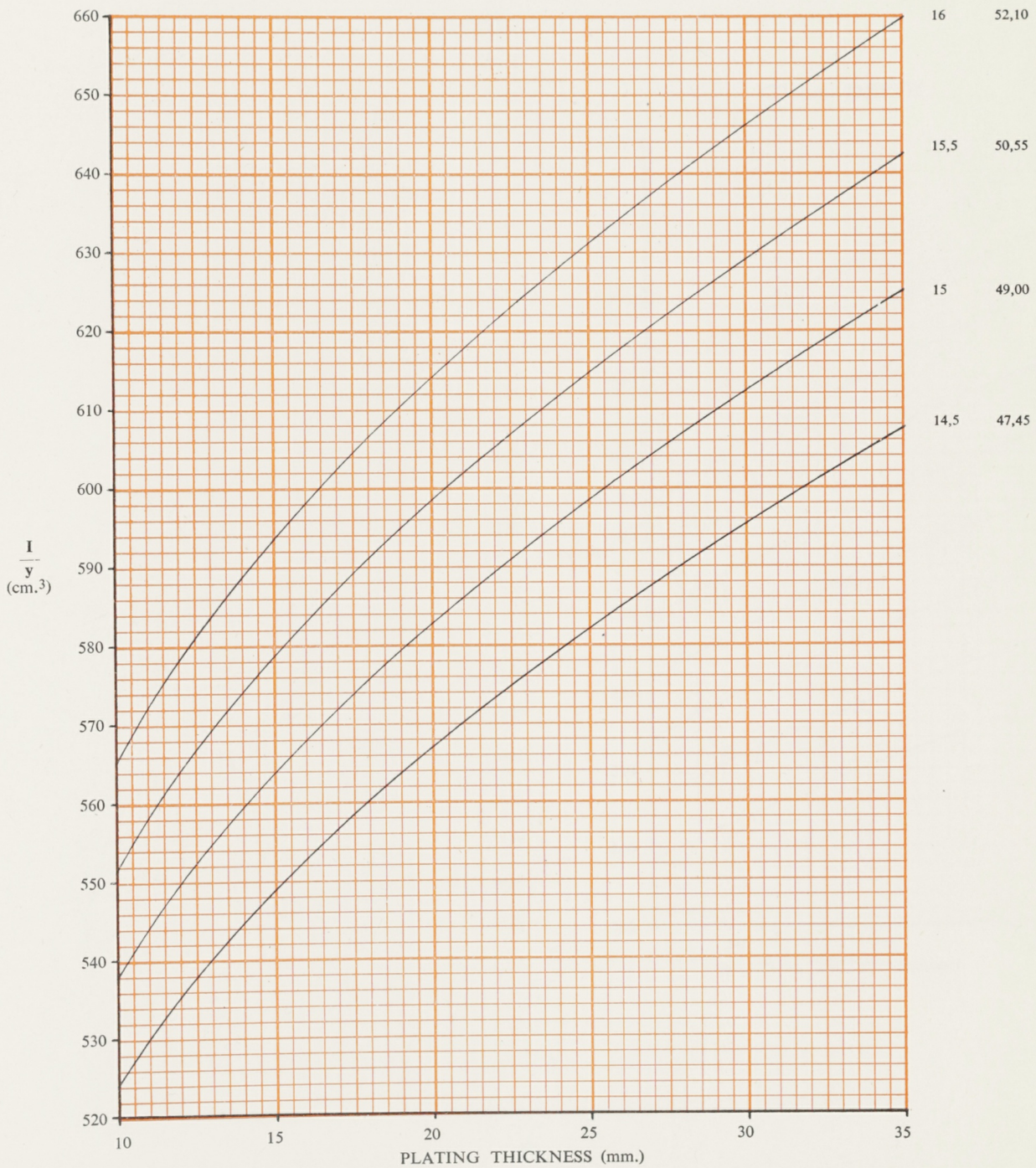
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

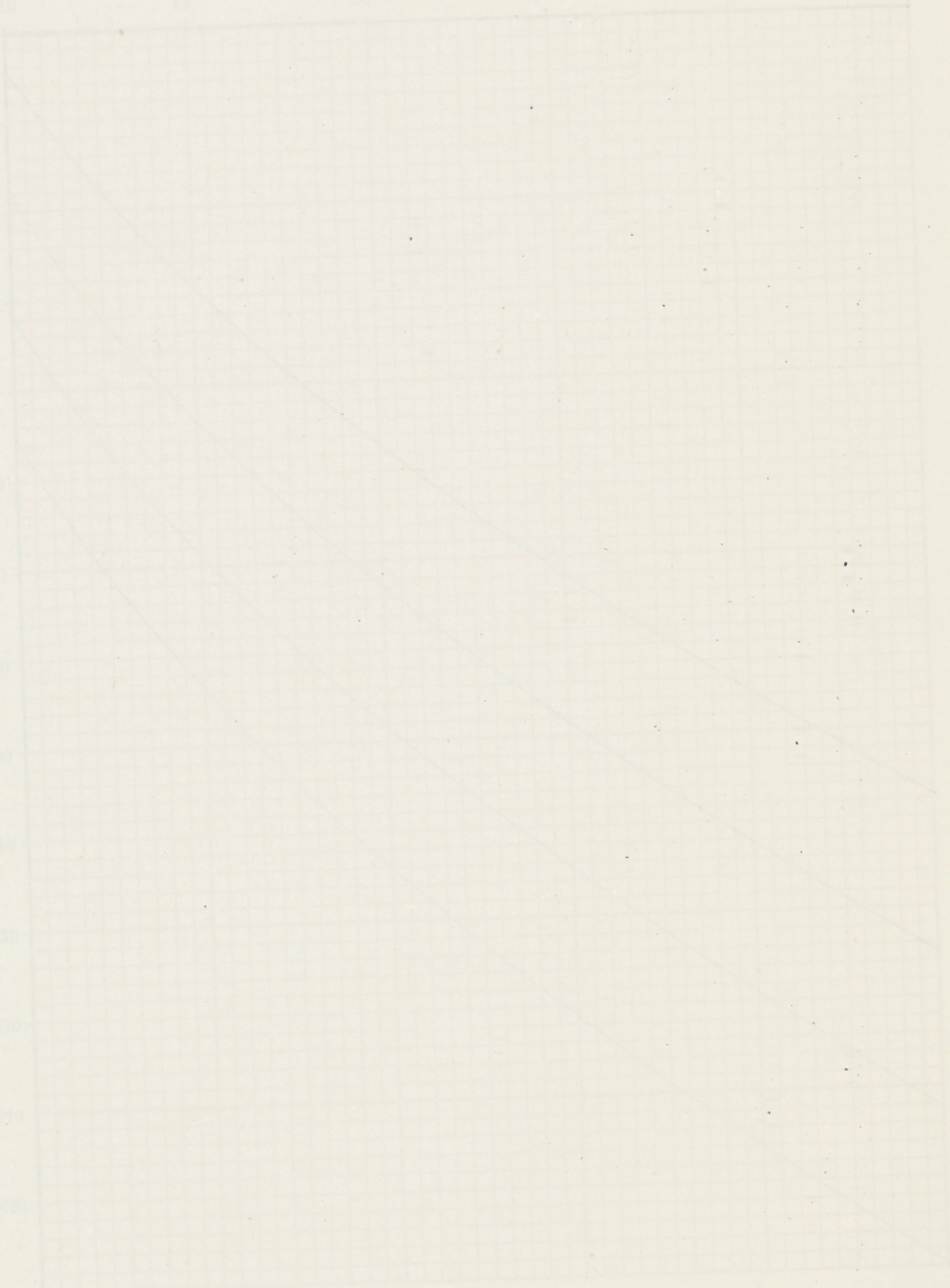


90 mm. FLANGE

250 mm. DEPTH (*Concluded*)

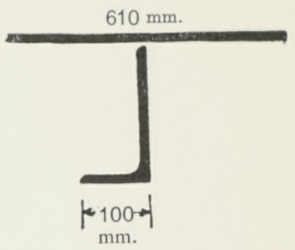


WEB (mm.)	AREA (cm.2)
16	52,10
15,5	50,55
15	49,00
14,5	47,45



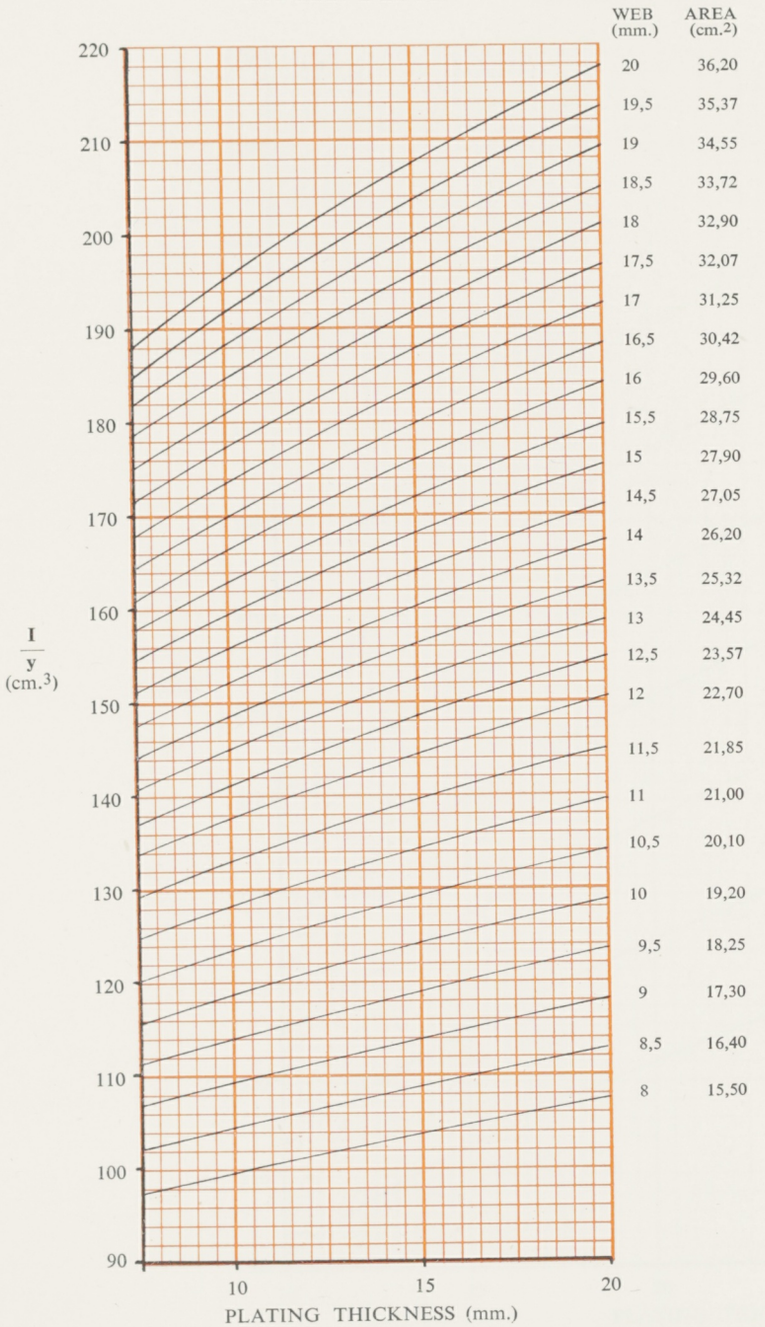
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



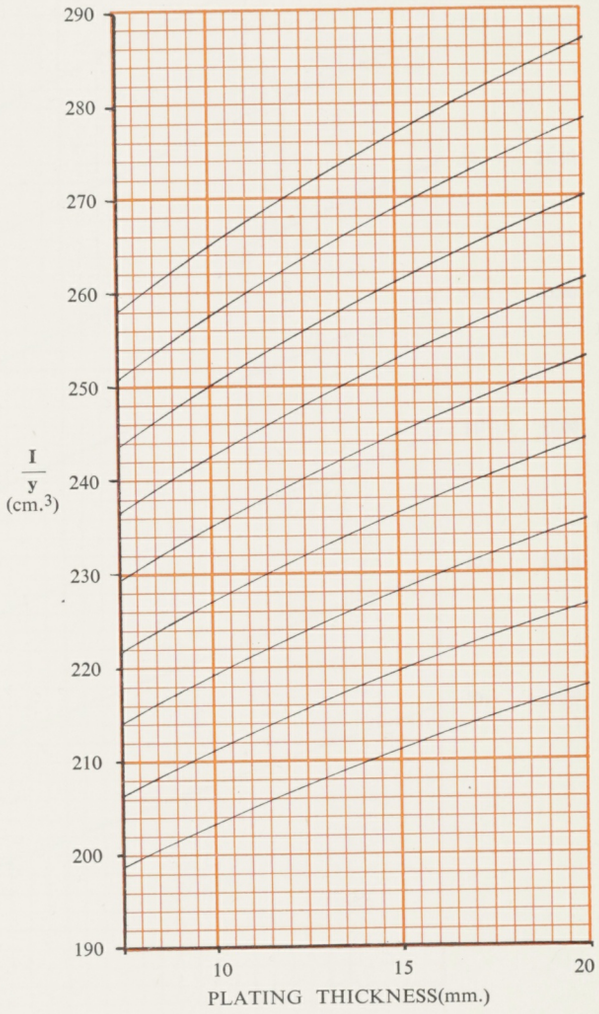
100 mm. FLANGE

100 mm. DEPTH



WEB (mm.)	AREA (cm.2)
20	36,20
19,5	35,37
19	34,55
18,5	33,72
18	32,90
17,5	32,07
17	31,25
16,5	30,42
16	29,60
15,5	28,75
15	27,90
14,5	27,05
14	26,20
13,5	25,32
13	24,45
12,5	23,57
12	22,70
11,5	21,85
11	21,00
10,5	20,10
10	19,20
9,5	18,25
9	17,30
8,5	16,40
8	15,50

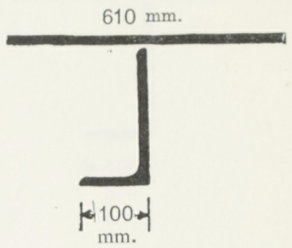
150 mm. DEPTH



WEB (mm.)	AREA (cm.2)
14	33,20
13,5	32,07
13	30,95
12,5	29,82
12	28,70
11,5	27,57
11	26,45
10,5	25,32
10	24,20

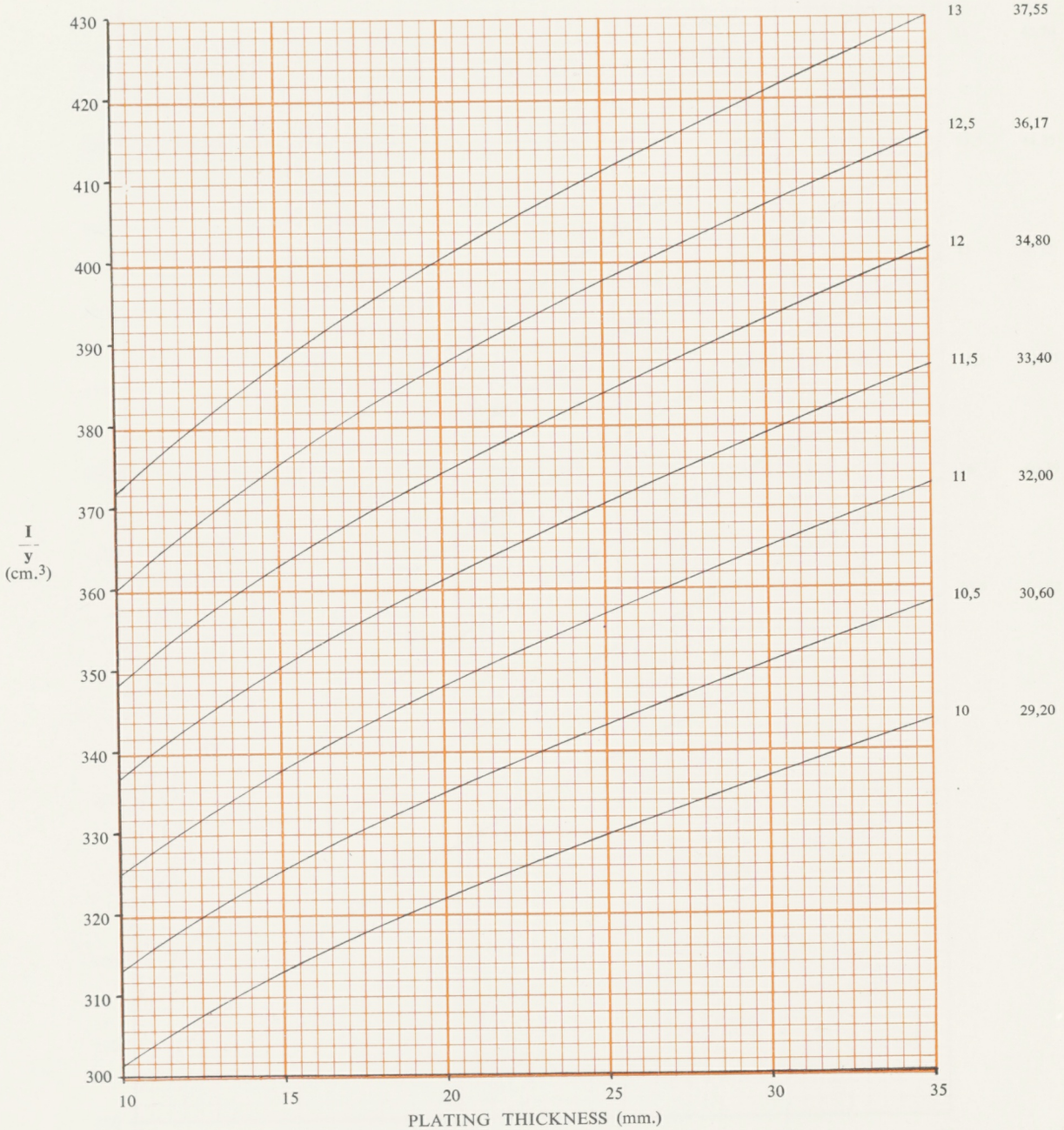
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

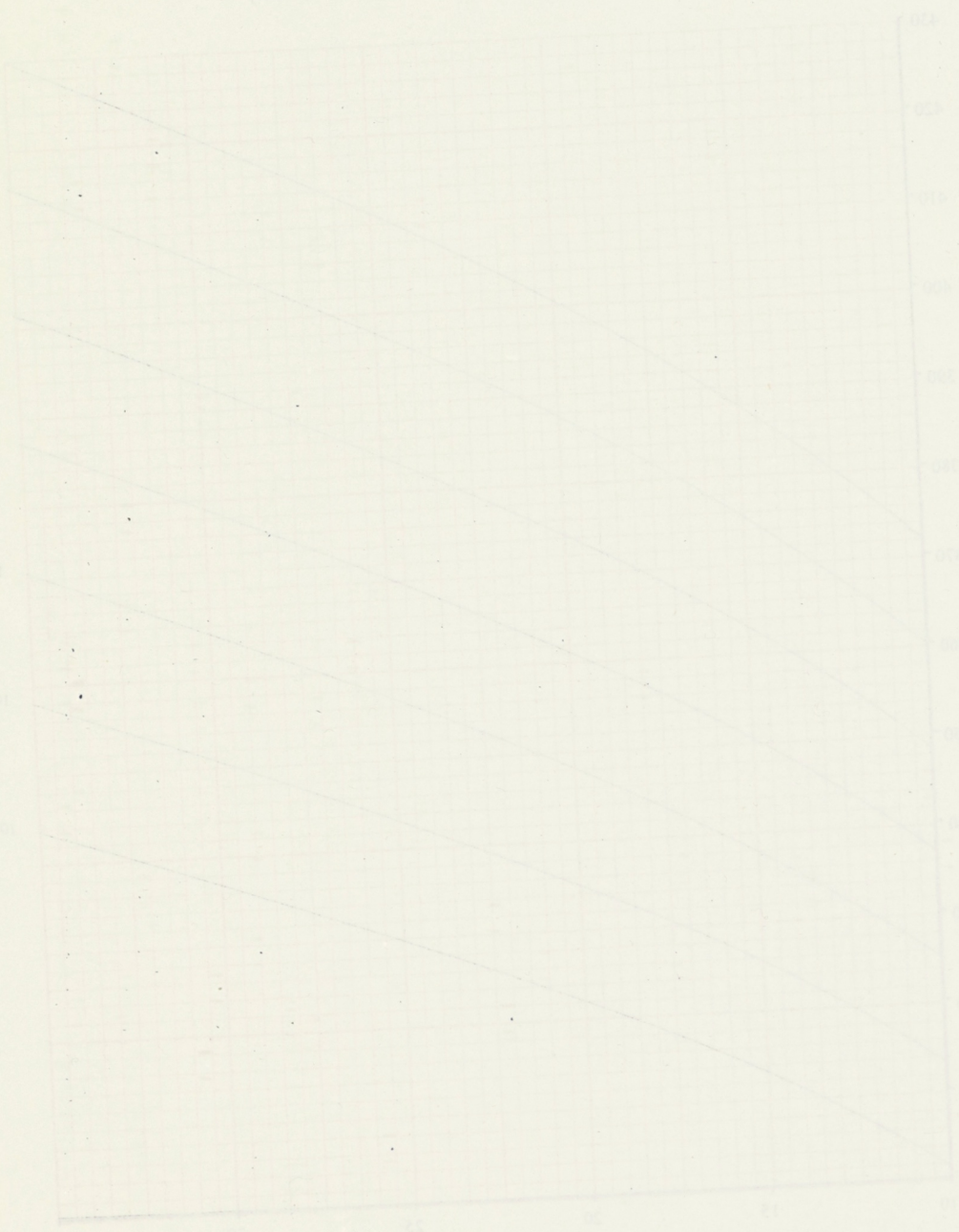


100 mm. FLANGE

200 mm. DEPTH (*See Continuation*)

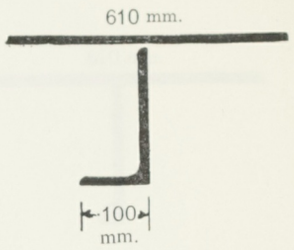


WEB (mm.)	AREA (cm.2)
13	37,55
12,5	36,17
12	34,80
11,5	33,40
11	32,00
10,5	30,60
10	29,20



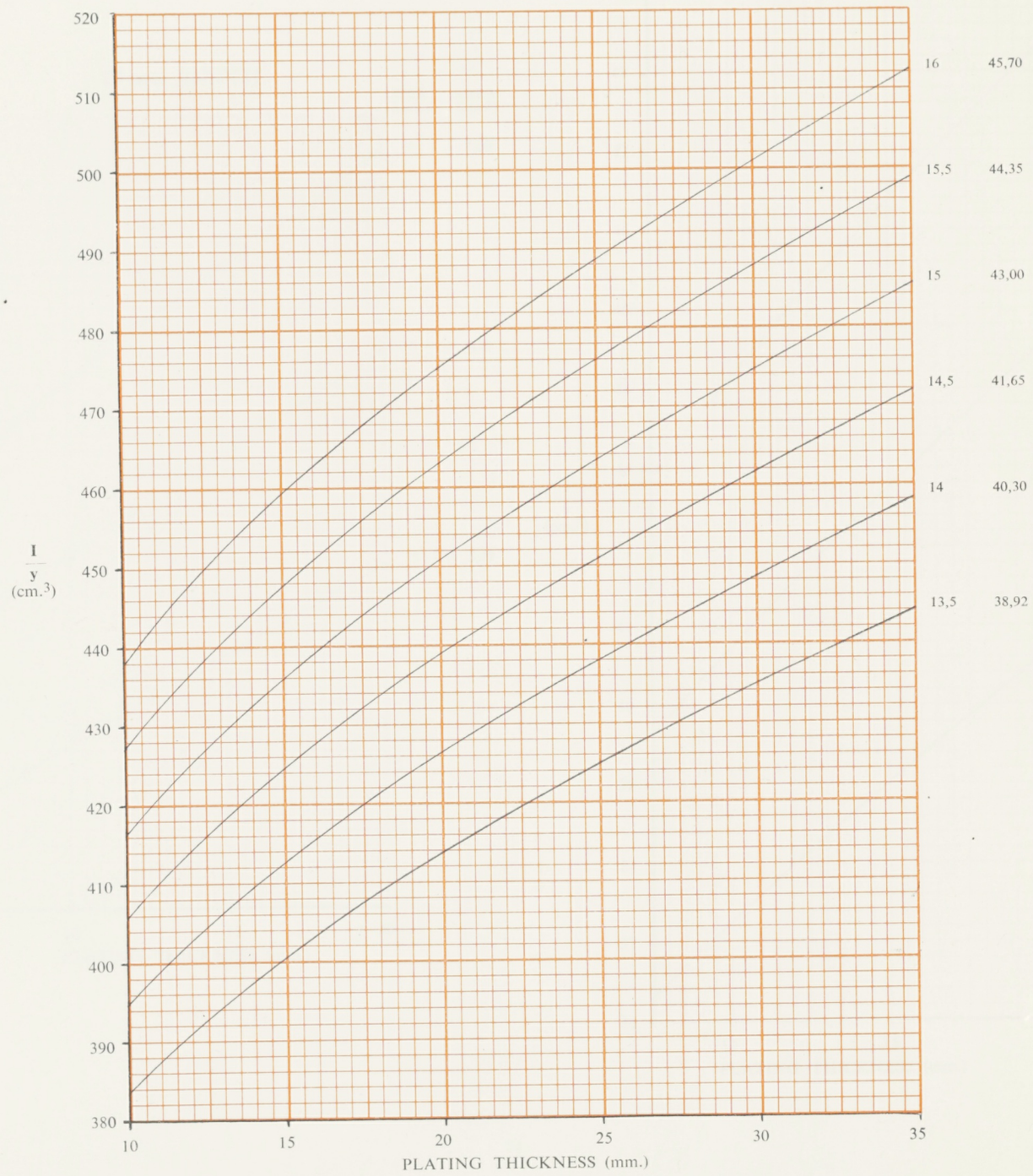
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



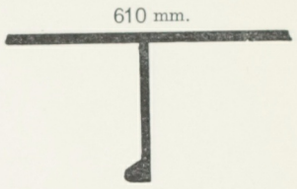
100 mm. FLANGE

200 mm. DEPTH (*Continued*)

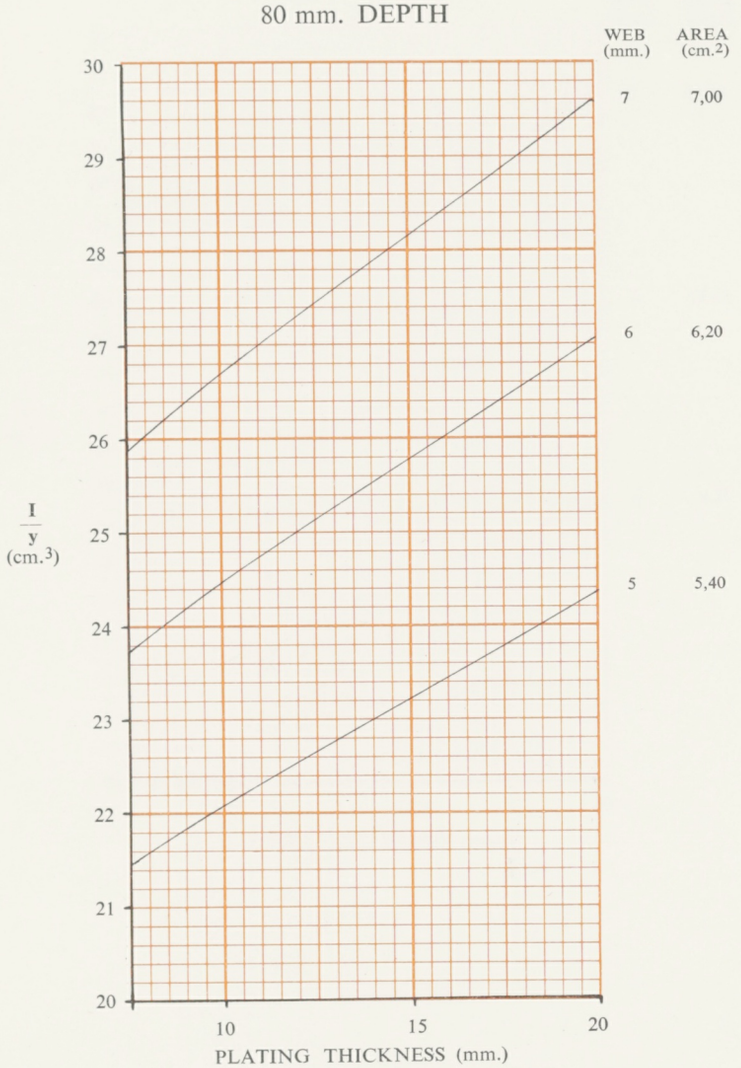


SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES (H.P.)

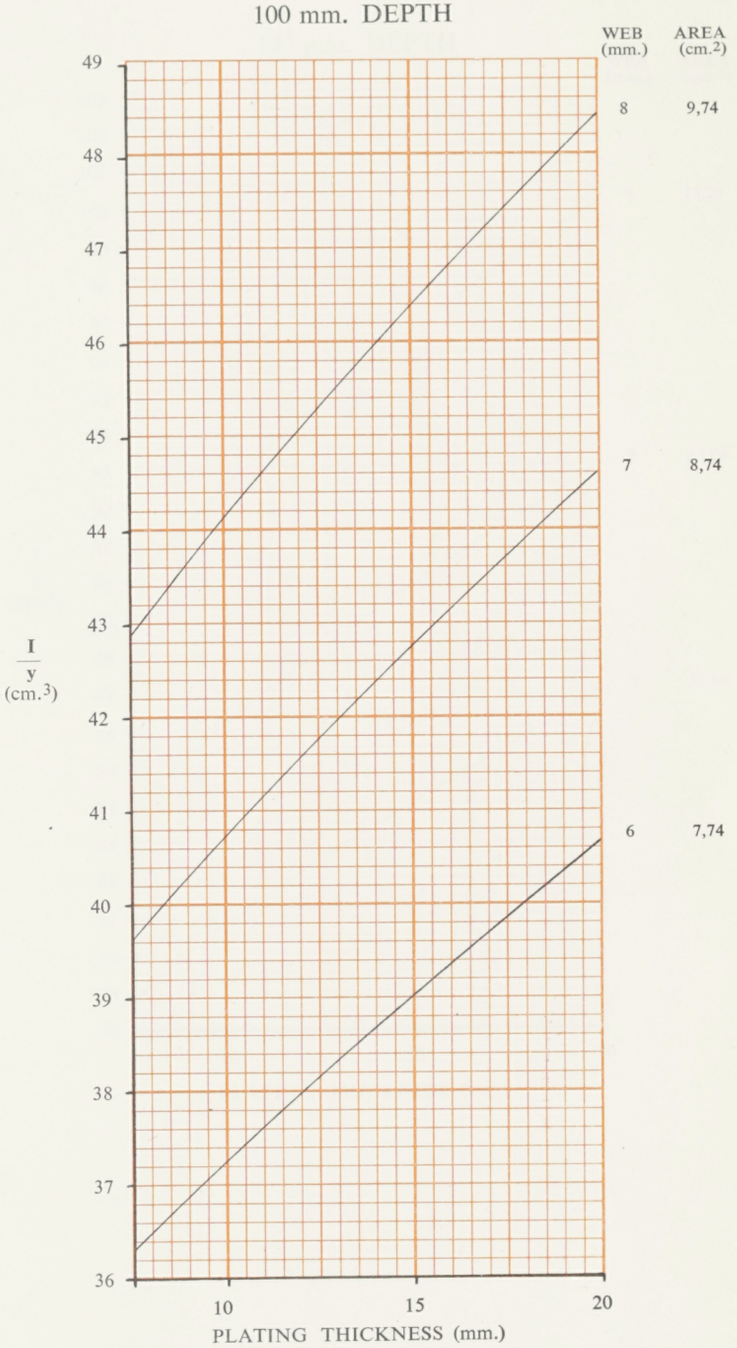
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

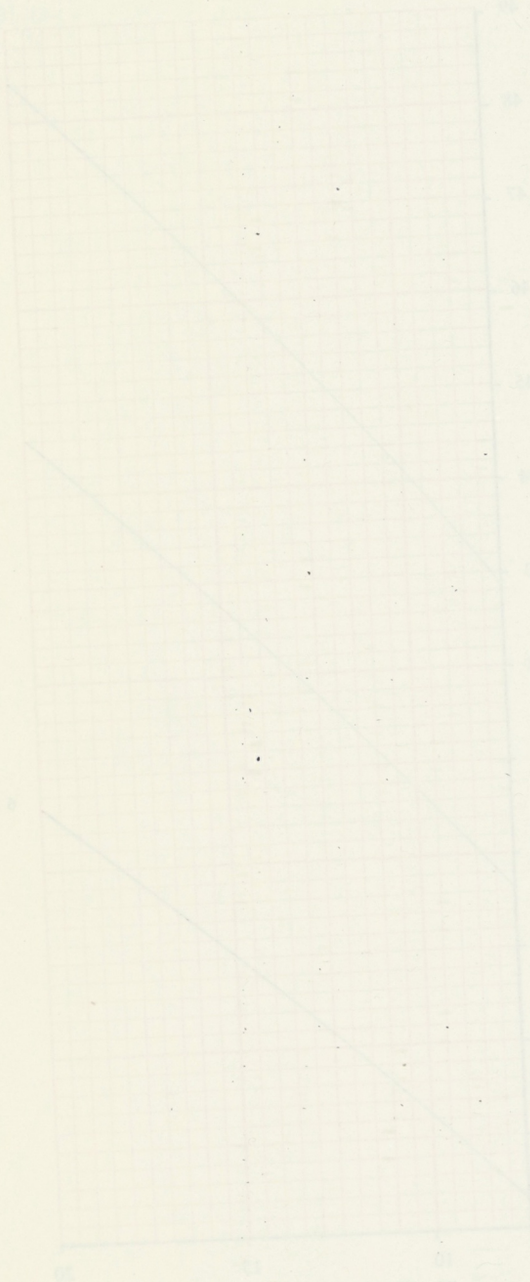


80 mm. DEPTH



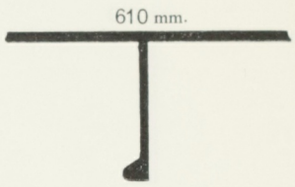
100 mm. DEPTH



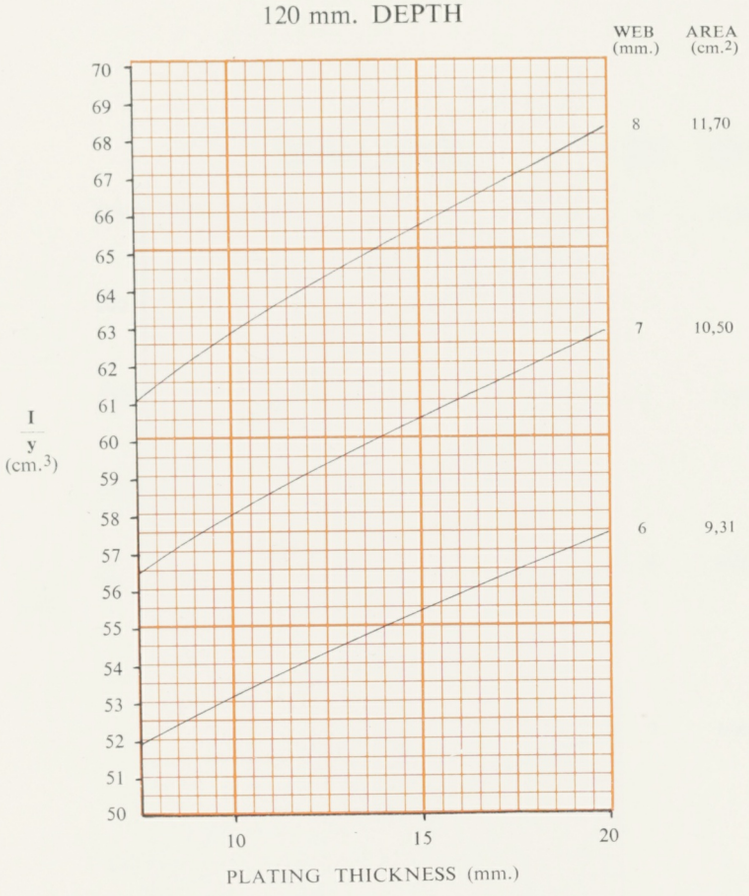


SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES (H.P.)

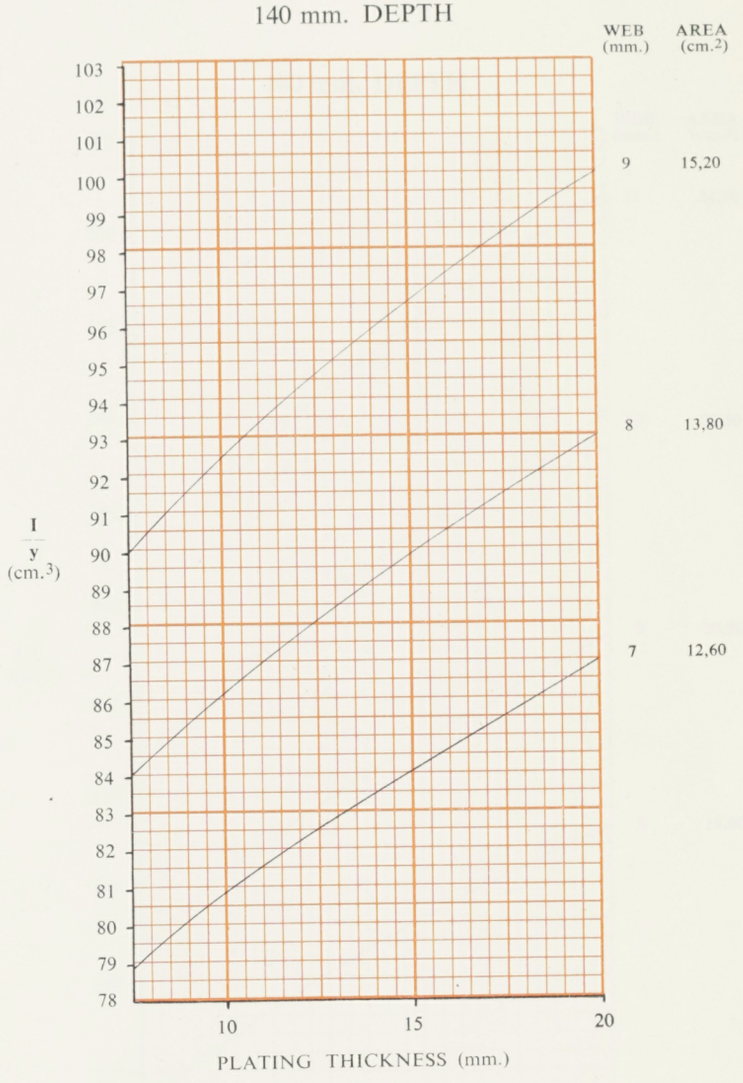
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

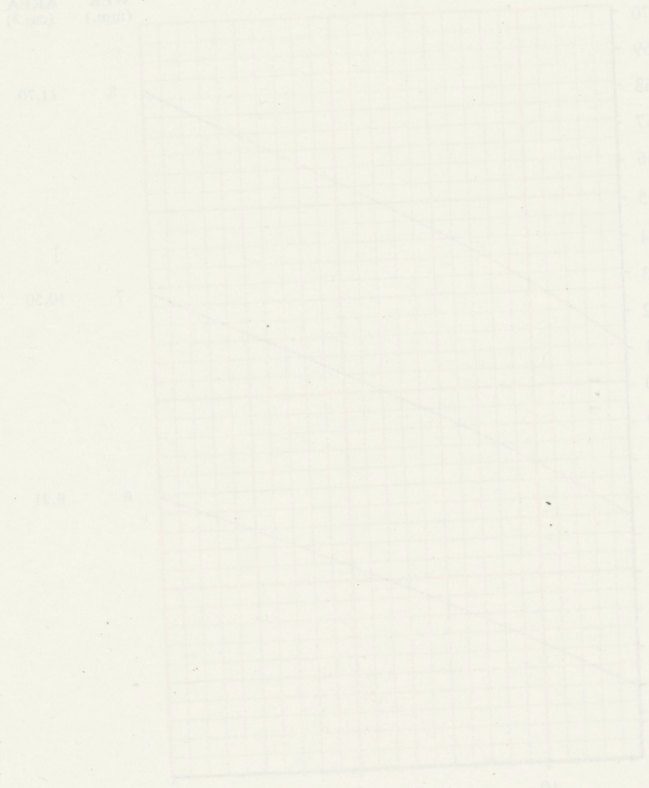


120 mm. DEPTH



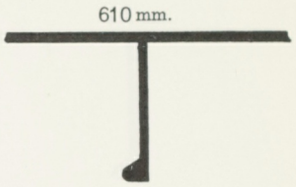
140 mm. DEPTH



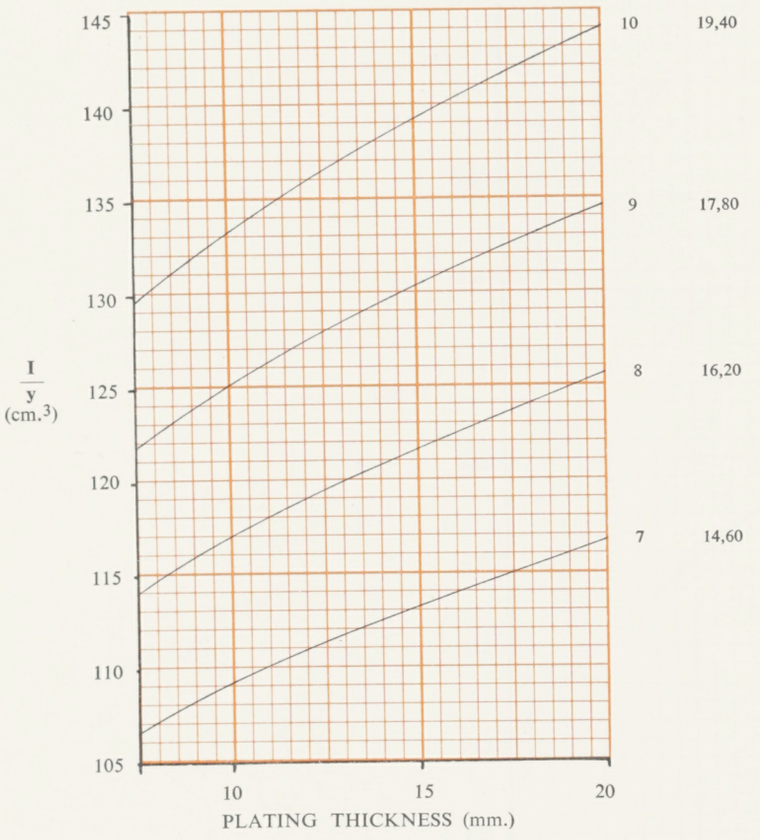


SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES (H.P.)

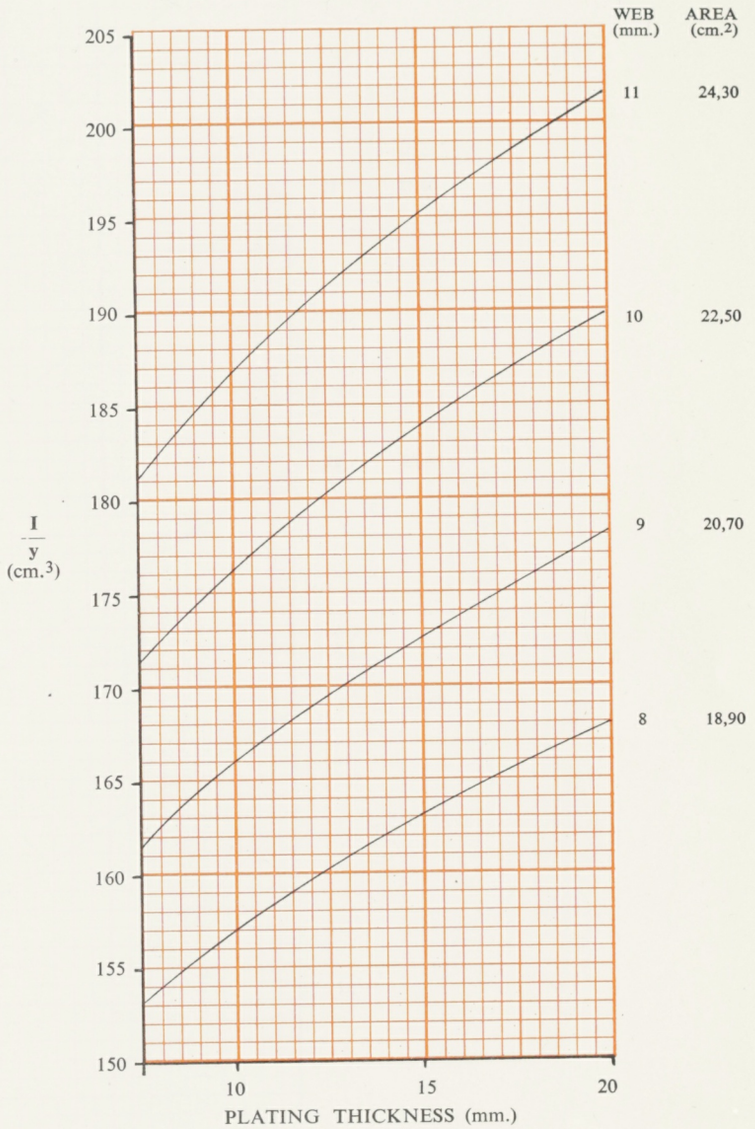
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

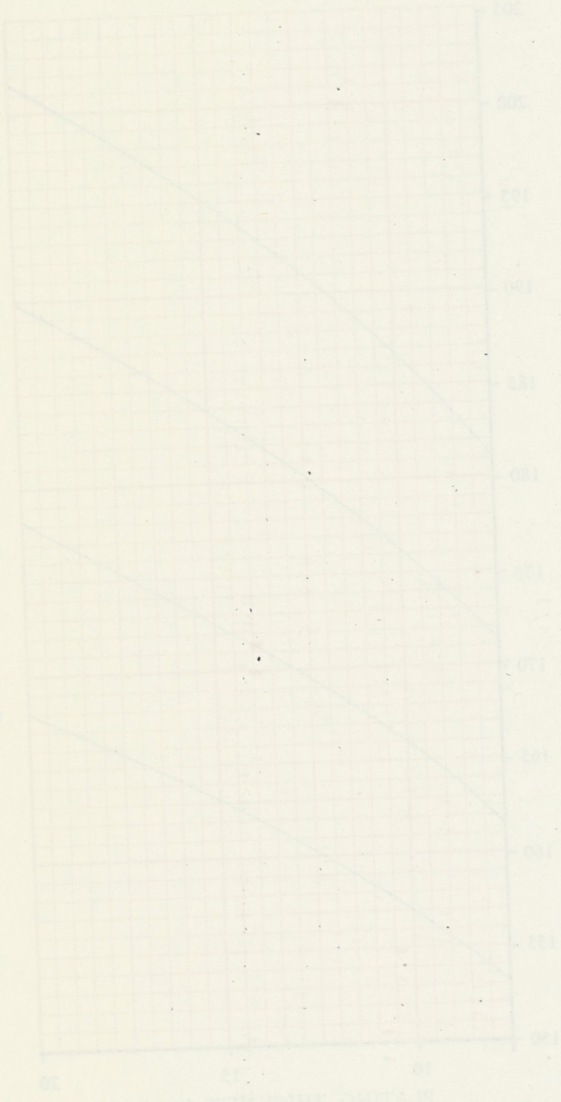


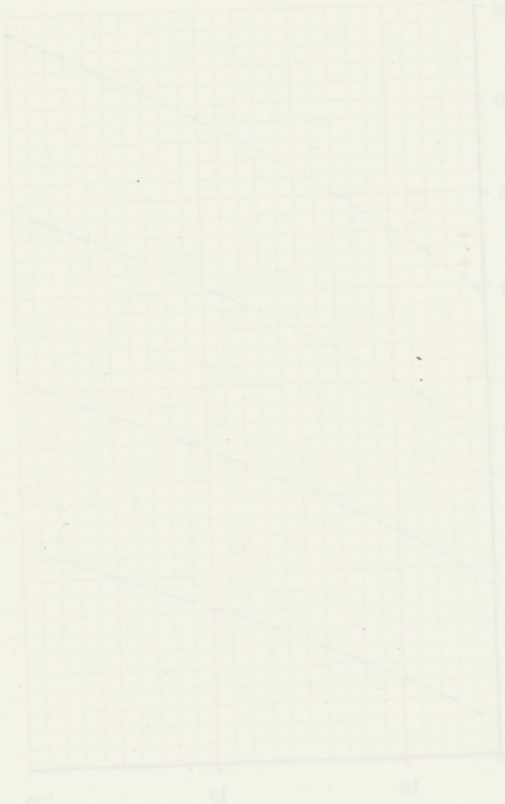
160 mm. DEPTH



180 mm. DEPTH

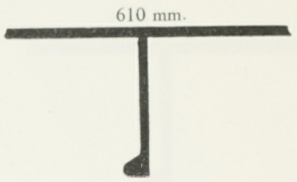


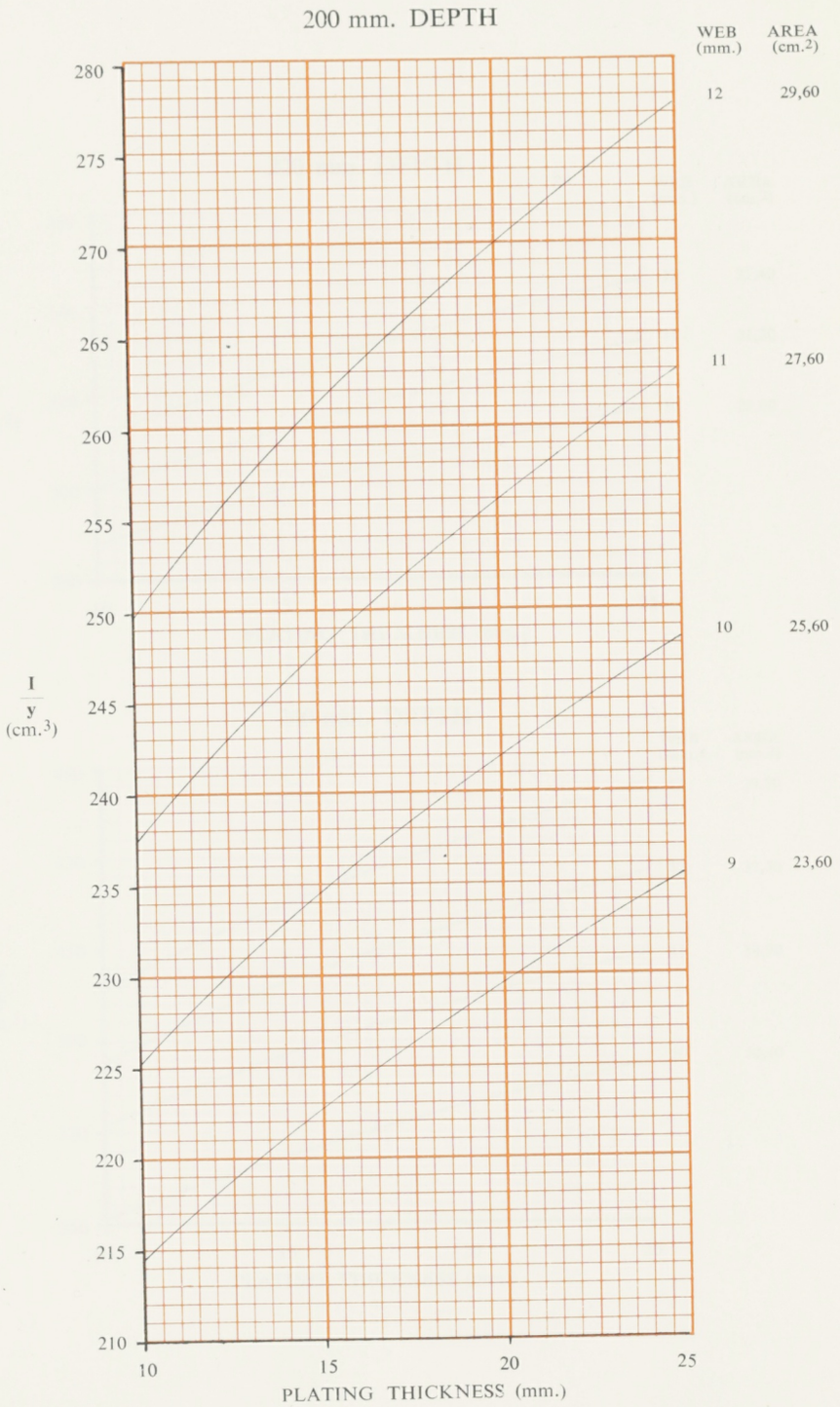




SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES (H.P.)

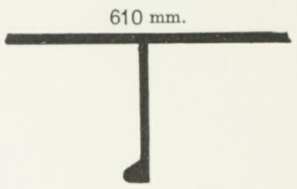
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



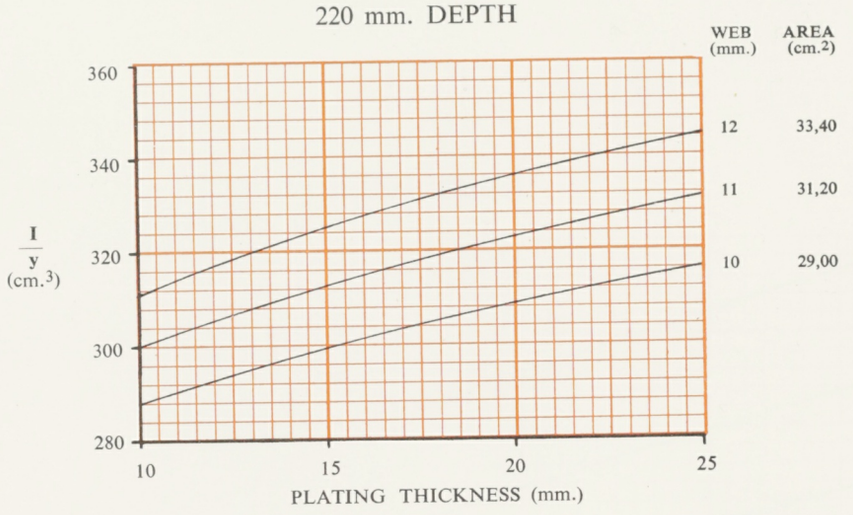


SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES (H.P.)

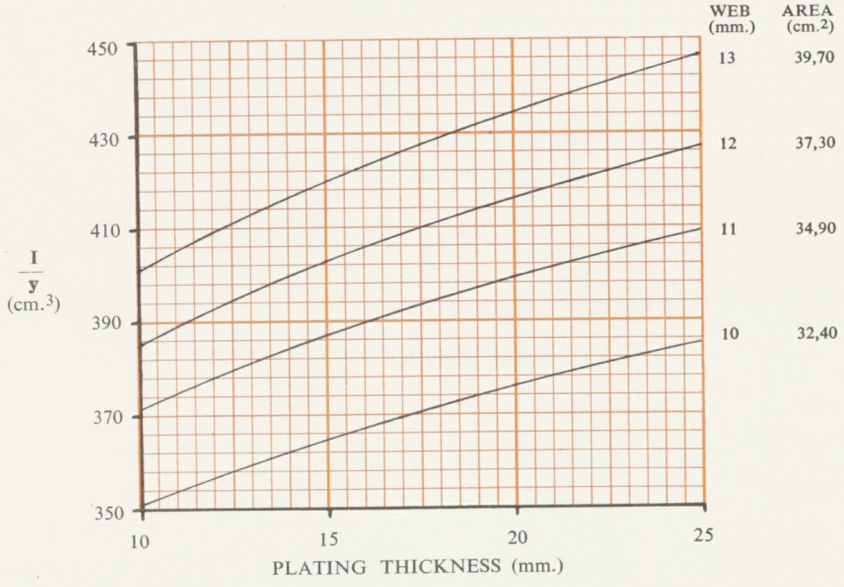
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



220 mm. DEPTH

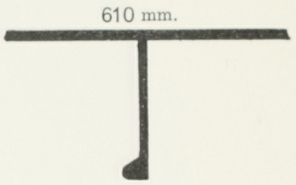


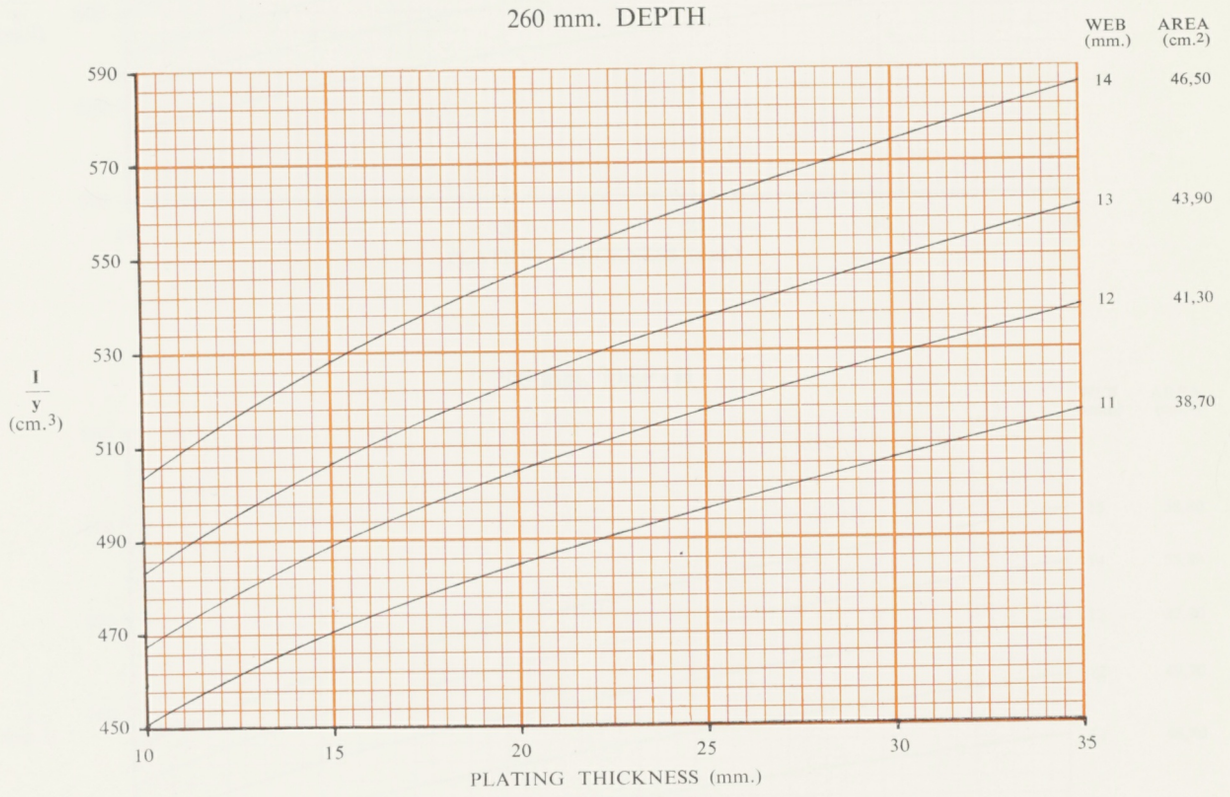
240 mm. DEPTH



SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES (H.P.)

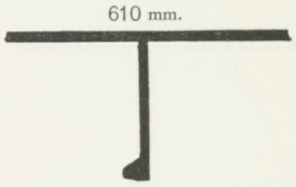
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



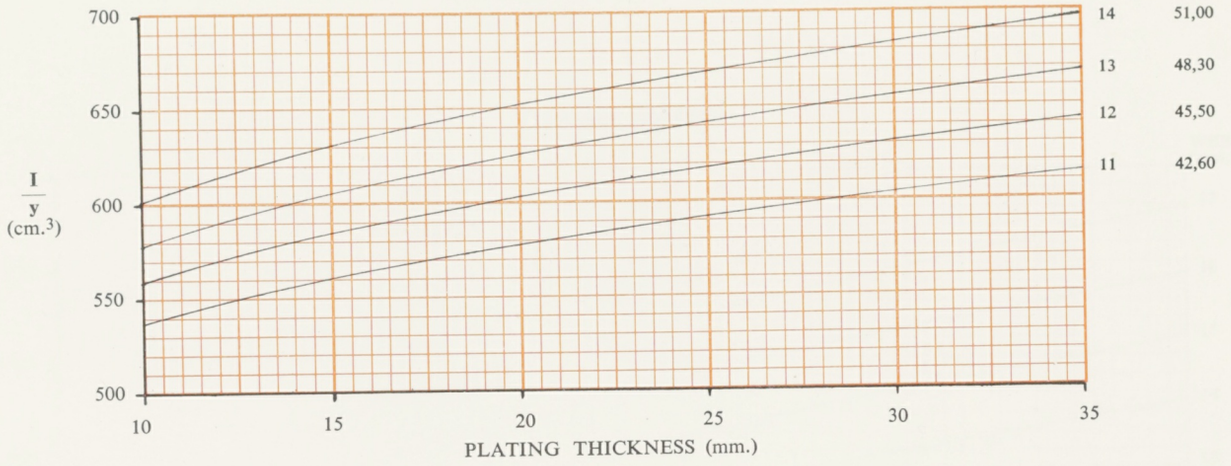


SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES (H.P.)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

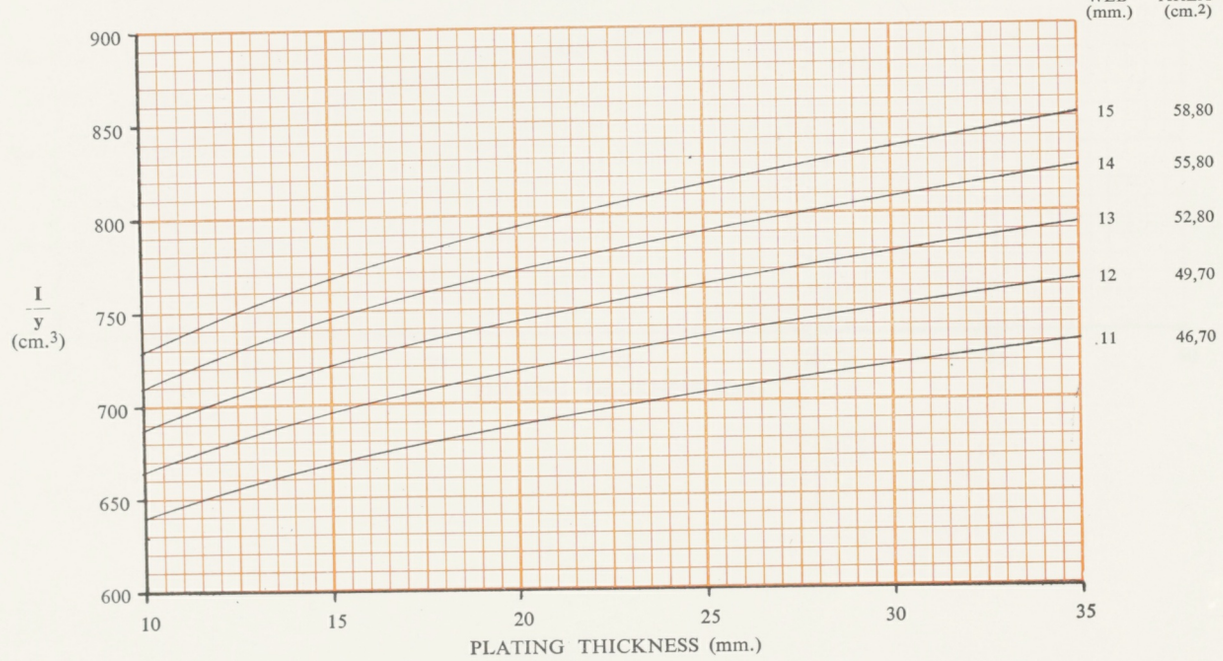


280 mm. DEPTH



WEB (mm.)	AREA (cm.2)
14	51,00
13	48,30
12	45,50
11	42,60

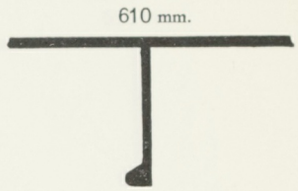
300 mm. DEPTH



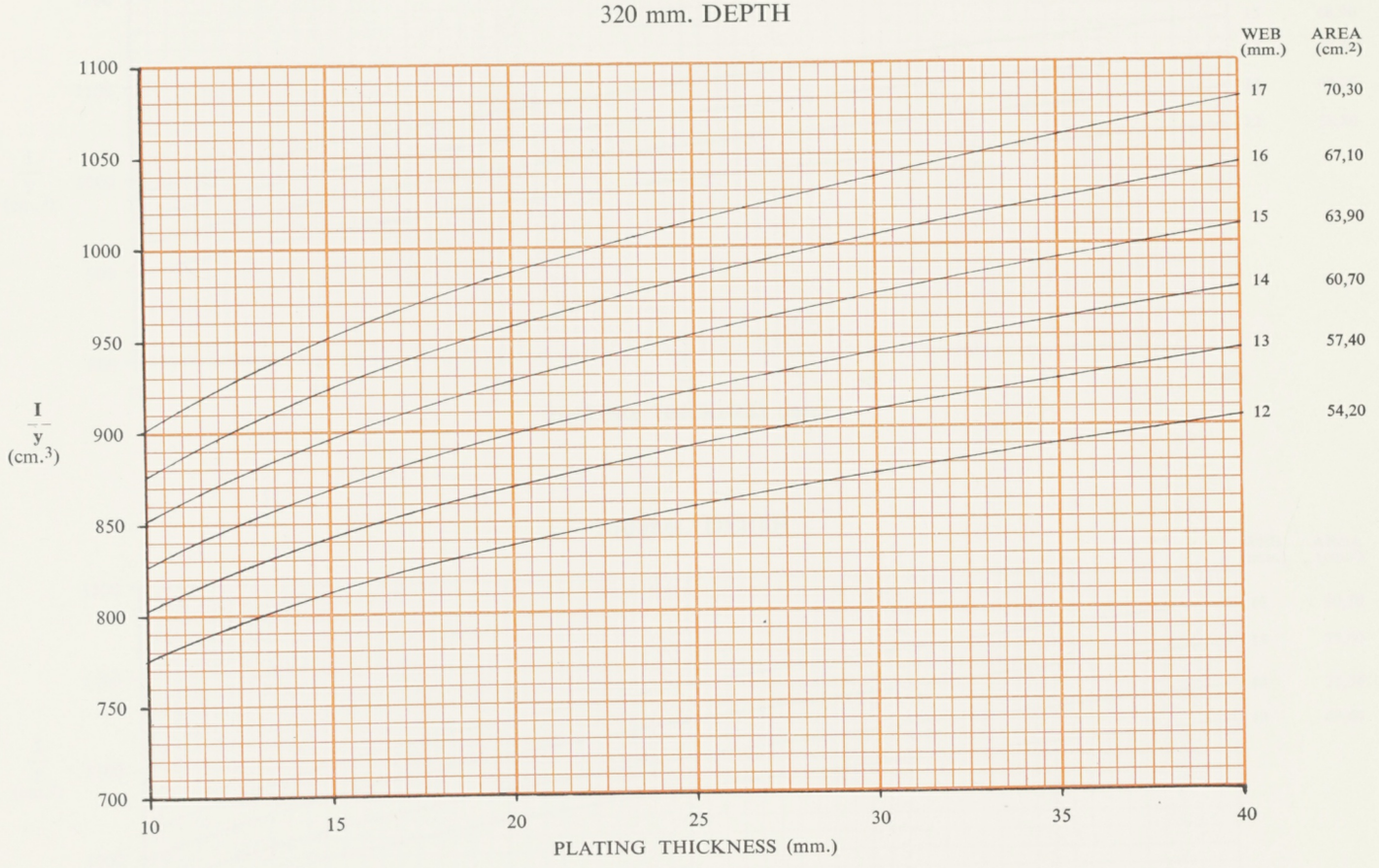
WEB (mm.)	AREA (cm.2)
15	58,80
14	55,80
13	52,80
12	49,70
11	46,70

SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES (H.P.)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

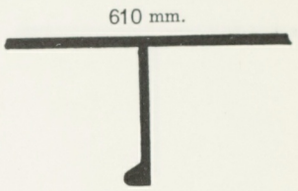


320 mm. DEPTH

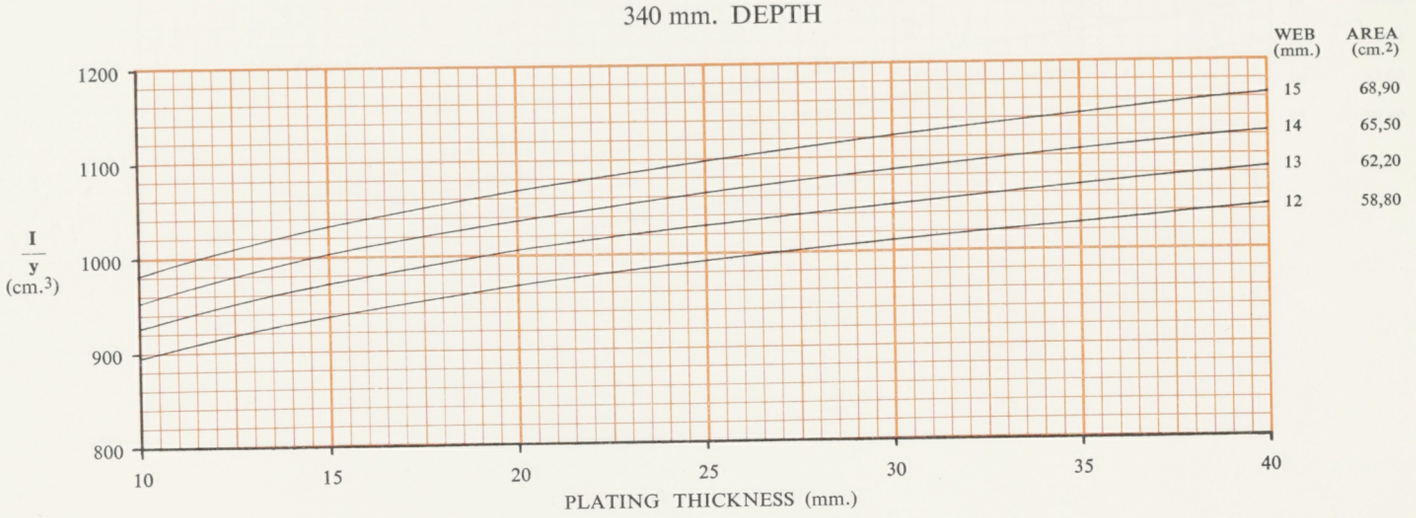


SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES (H.P.)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

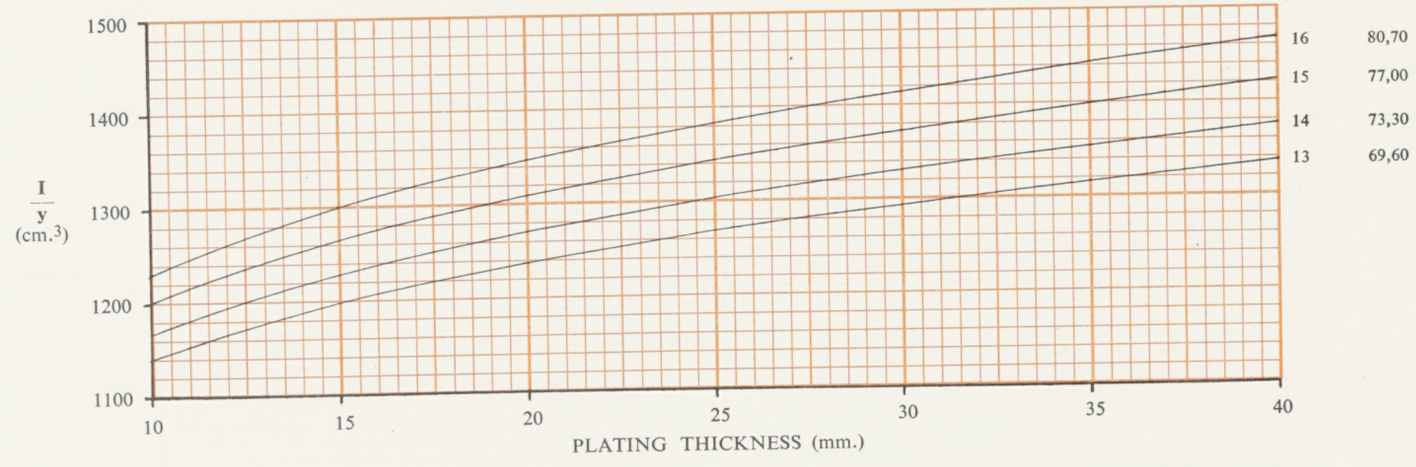


340 mm. DEPTH



WEB (mm.)	AREA (cm.2)
15	68,90
14	65,50
13	62,20
12	58,80

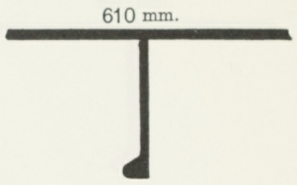
370 mm. DEPTH



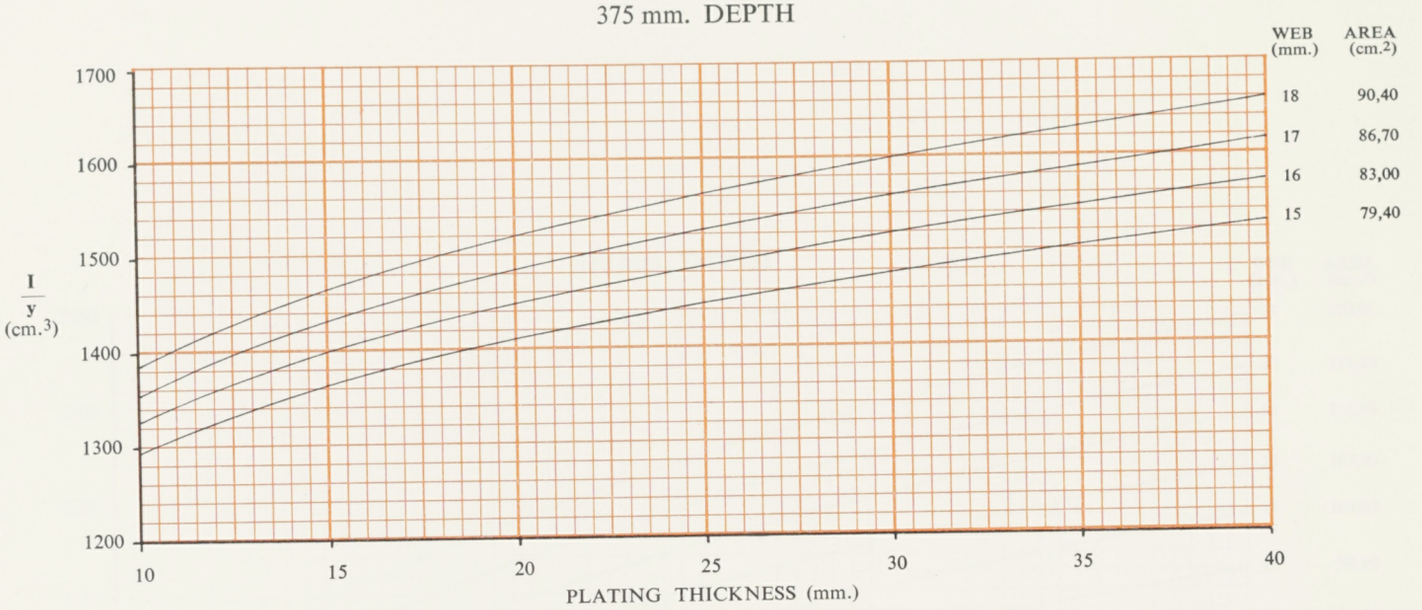
WEB (mm.)	AREA (cm.2)
16	80,70
15	77,00
14	73,30
13	69,60

SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES (H.P.)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

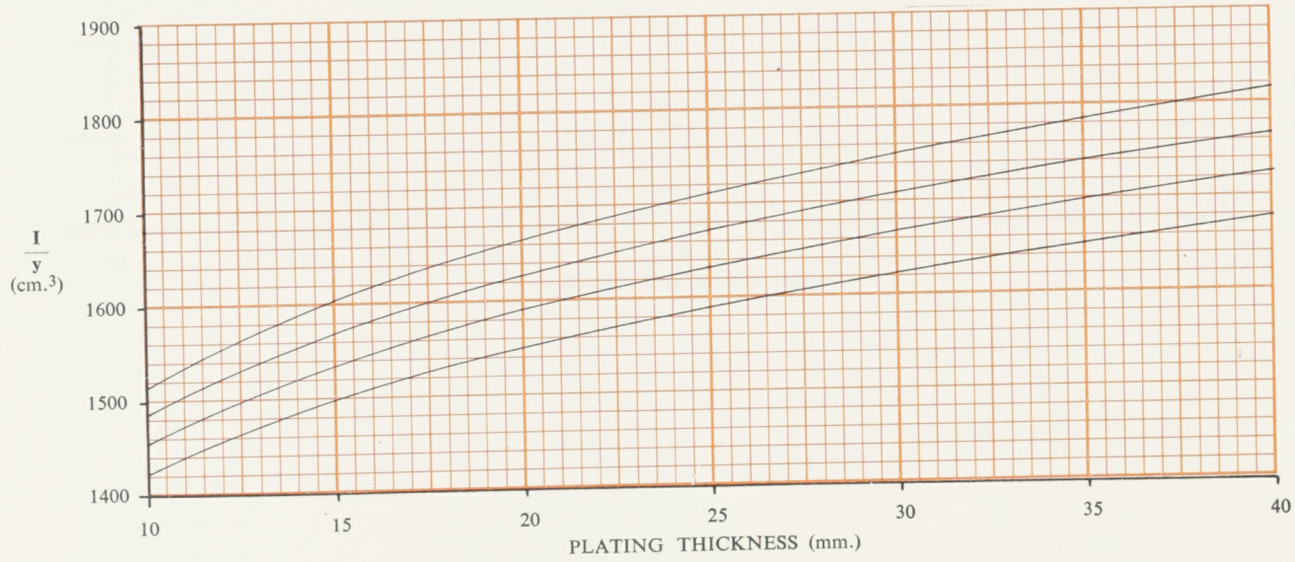


375 mm. DEPTH



WEB (mm.)	AREA (cm.2)
18	90,40
17	86,70
16	83,00
15	79,40

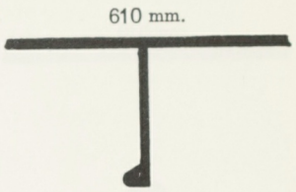
400 mm. DEPTH

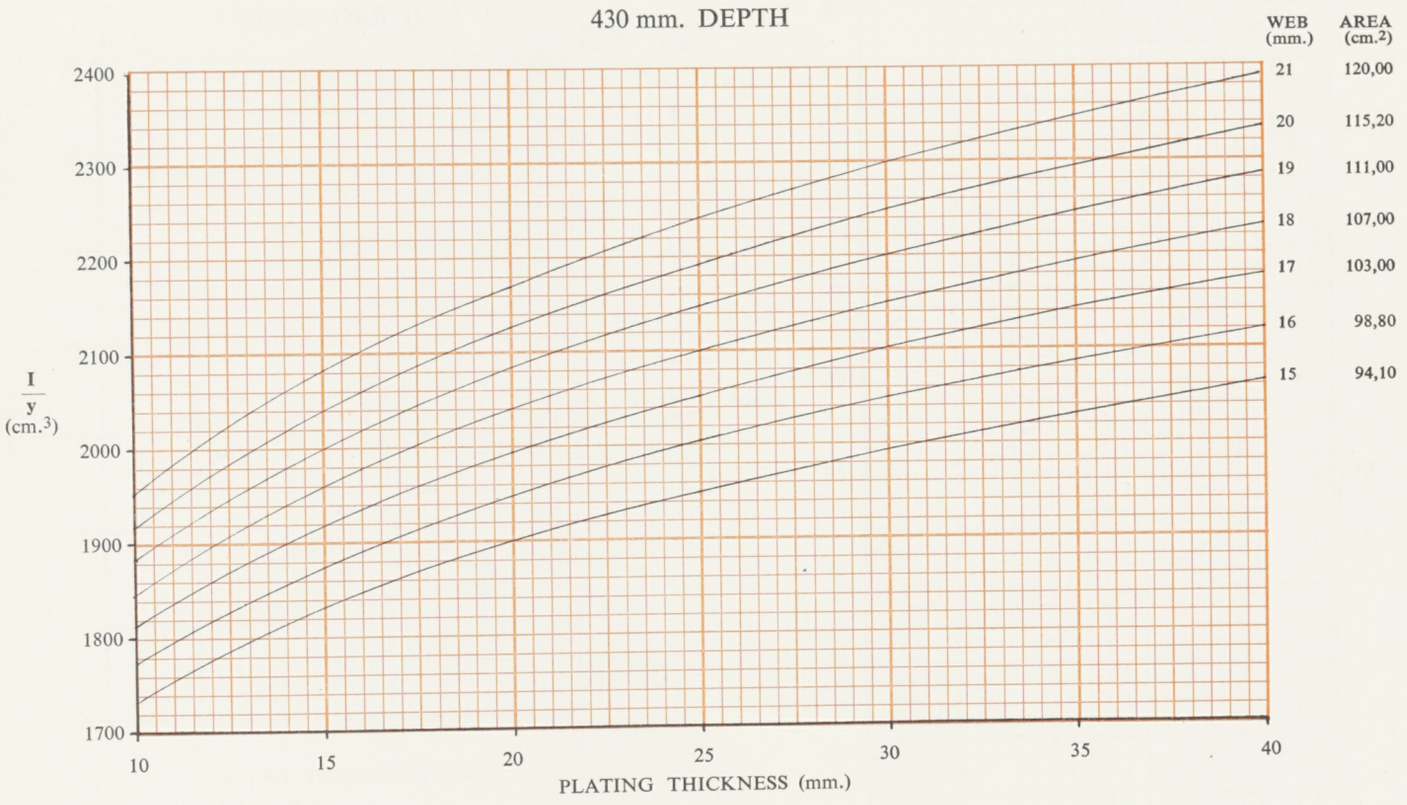


WEB (mm.)	AREA (cm.2)
17	93,40
16	89,40
15	85,40
14	81,40

SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES (H.P.)

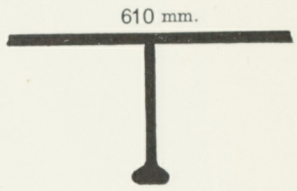
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



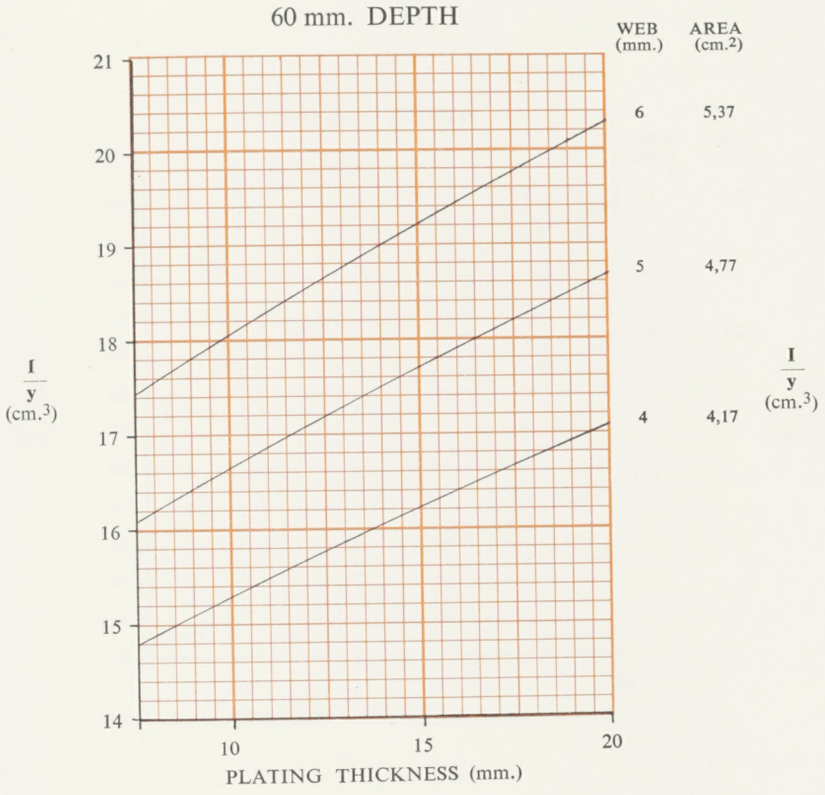


SECTION MODULUS AND AREA OF DOUBLE-SIDED BULB PLATES (D.P.)

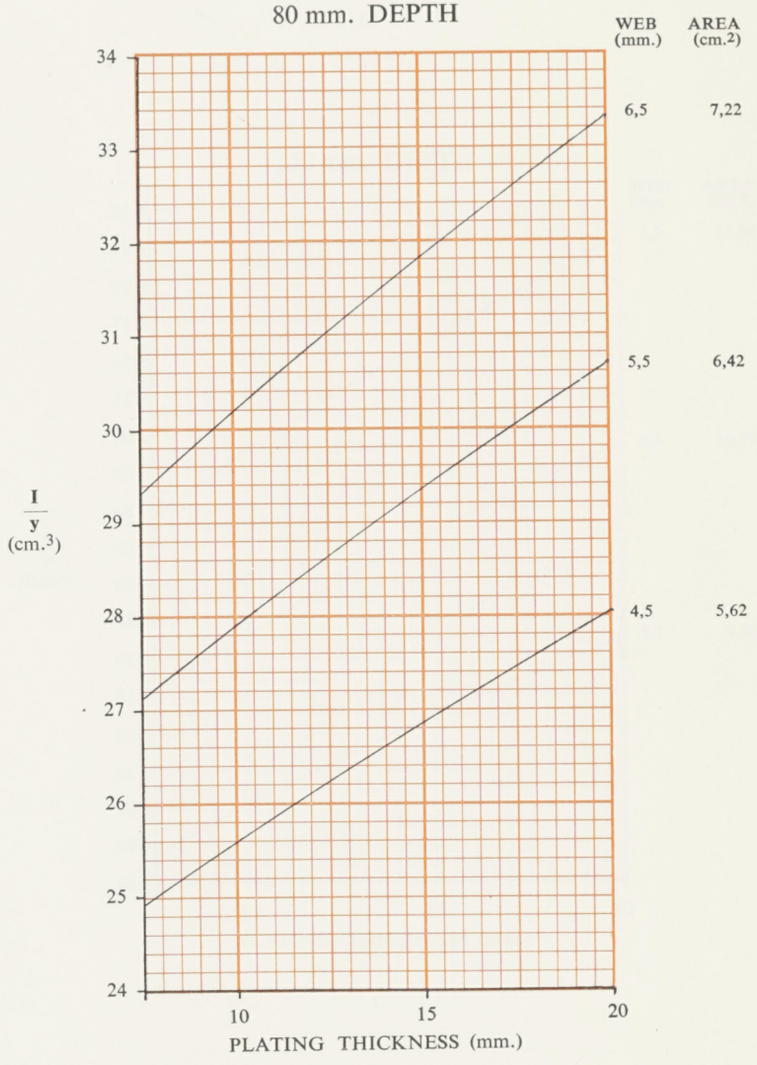
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

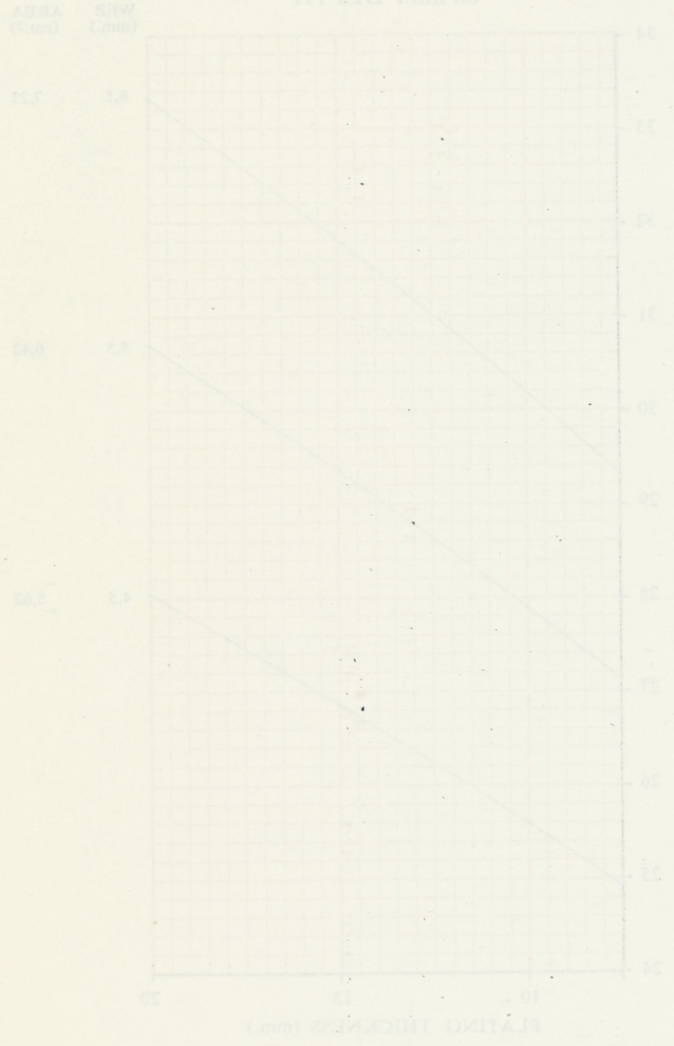


60 mm. DEPTH



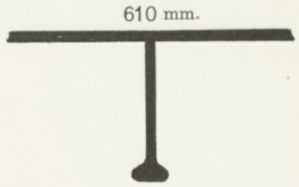
80 mm. DEPTH



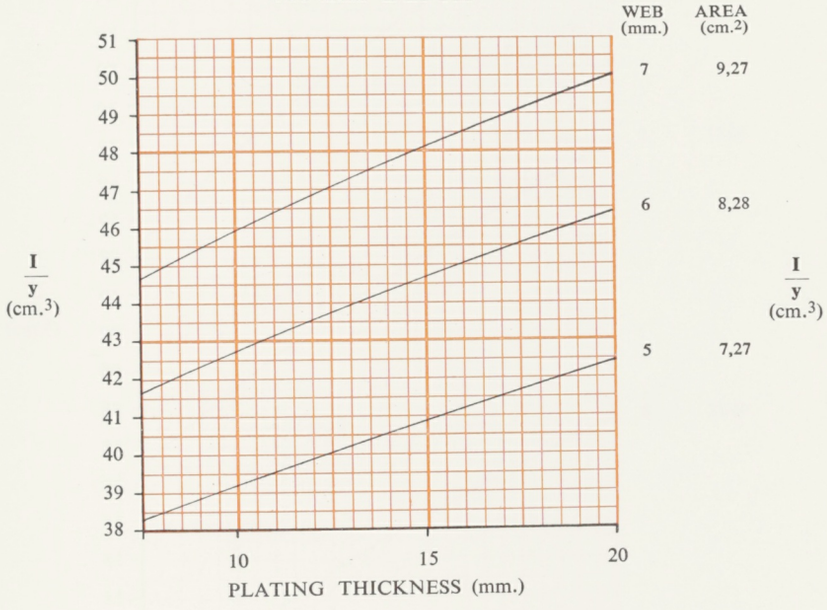


SECTION MODULUS AND AREA OF DOUBLE-SIDED BULB PLATES (D.P.)

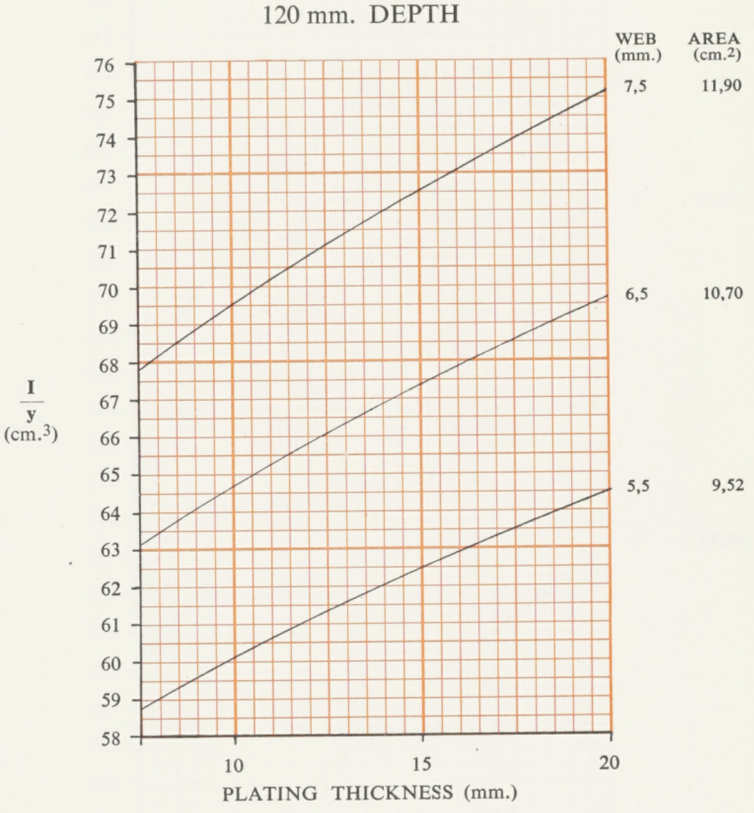
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

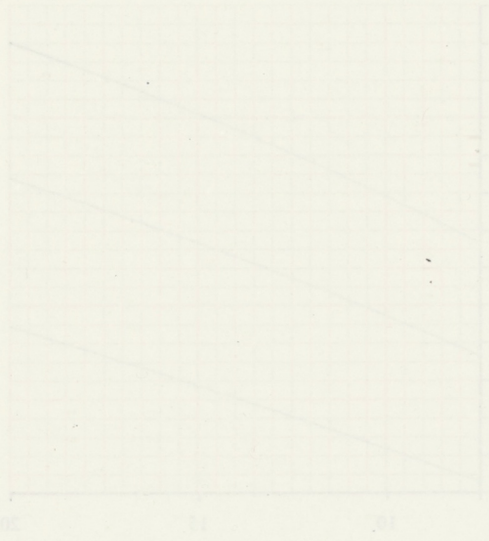


100 mm. DEPTH



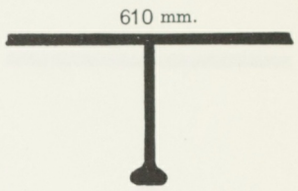
120 mm. DEPTH



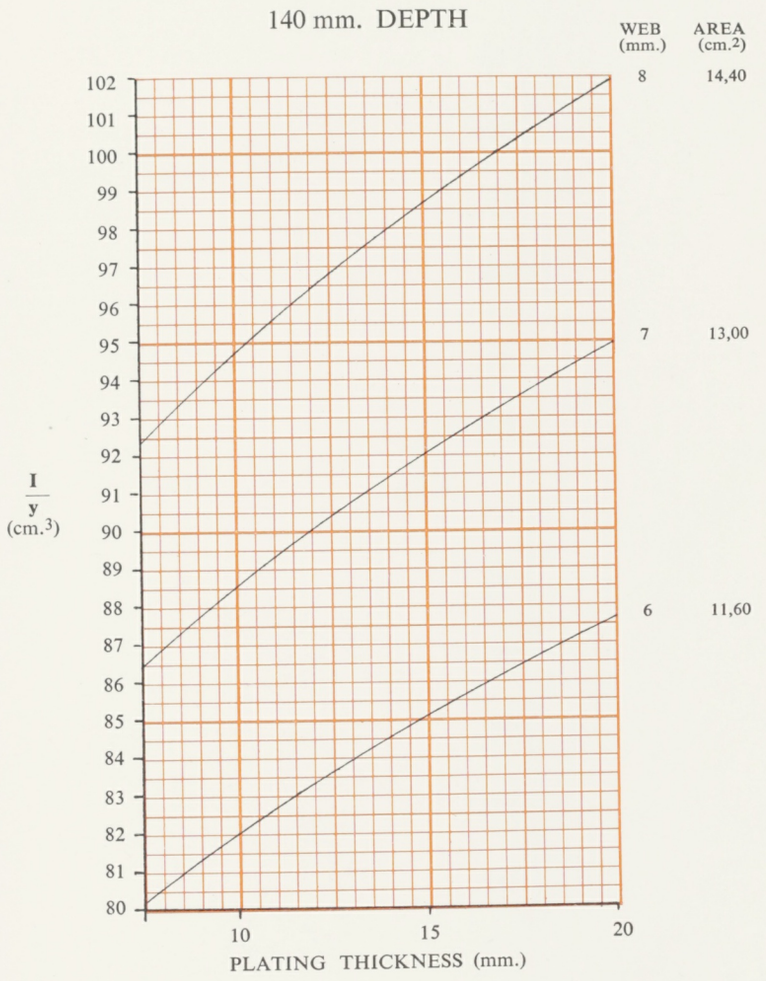


SECTION MODULUS AND AREA OF DOUBLE-SIDED BULB PLATES (D.P.)

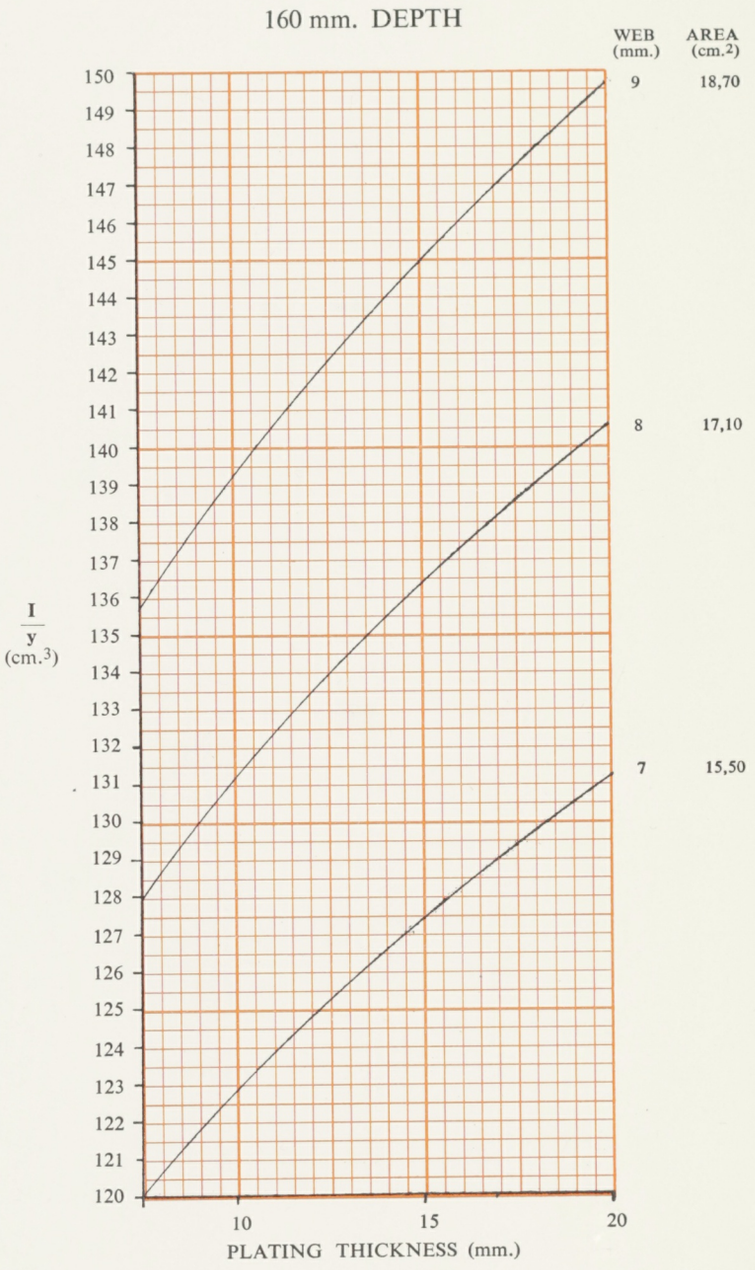
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

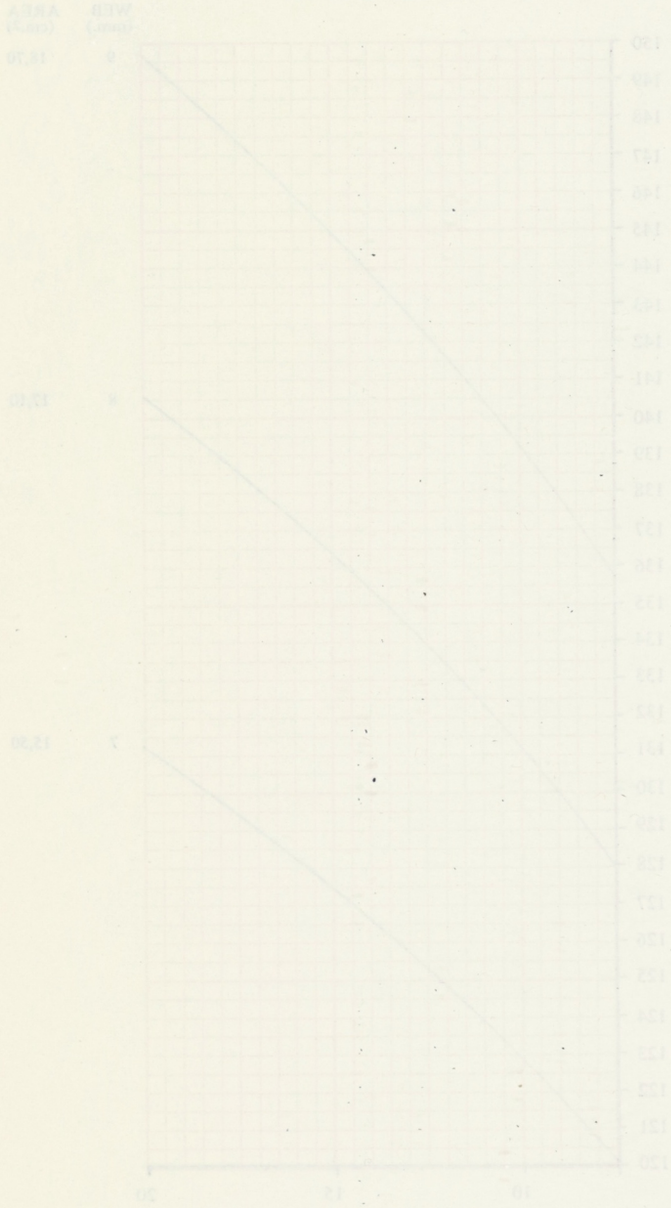


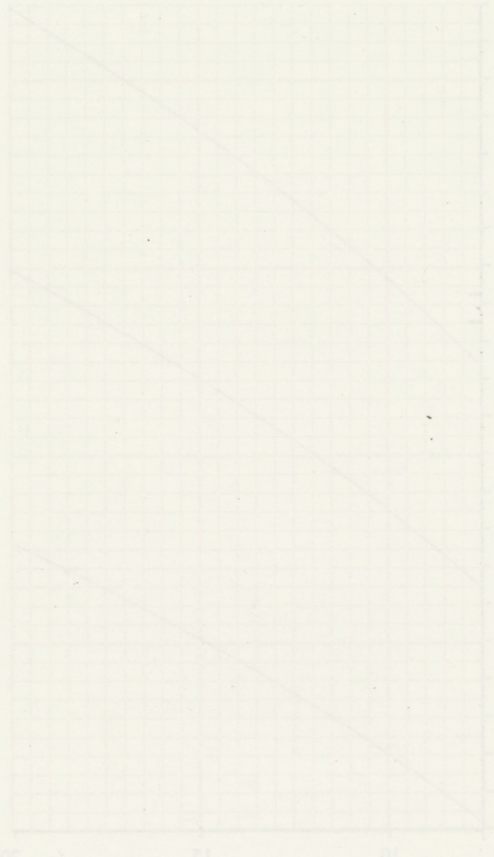
140 mm. DEPTH



160 mm. DEPTH

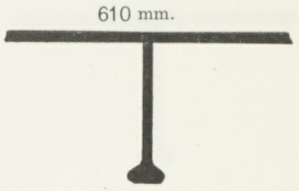


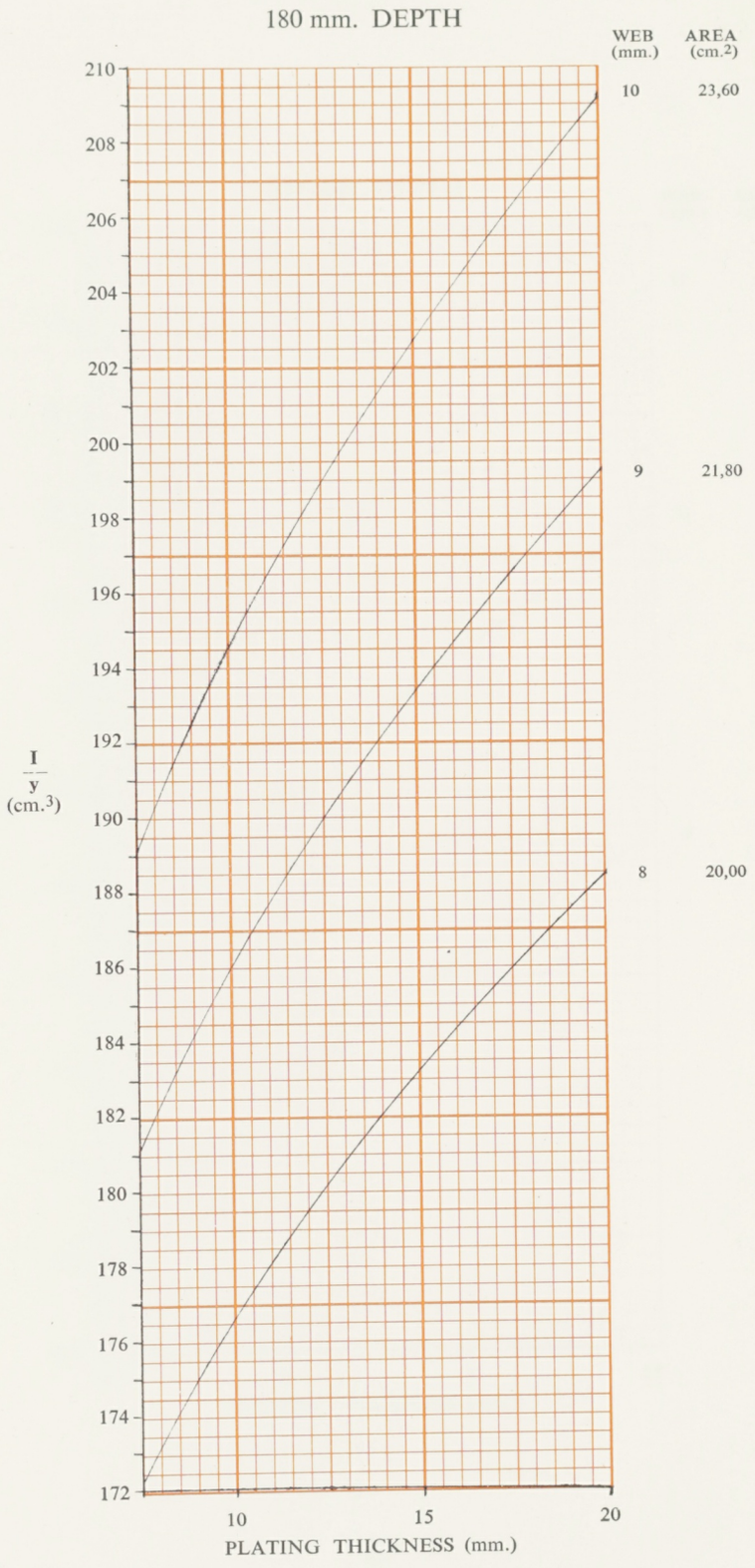




SECTION MODULUS AND AREA OF DOUBLE-SIDED BULB PLATES (D.P.)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

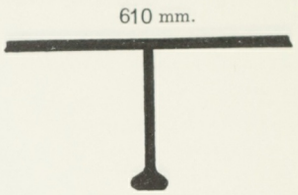


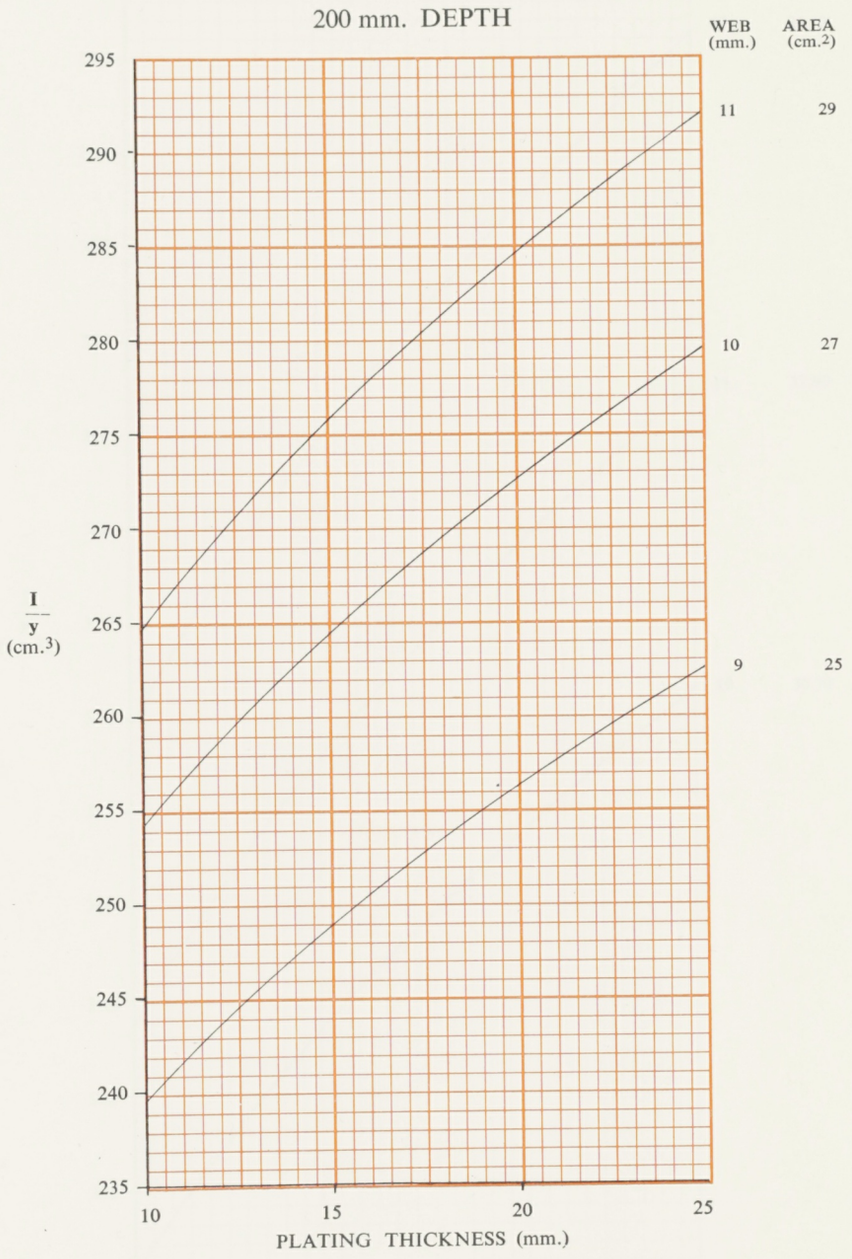


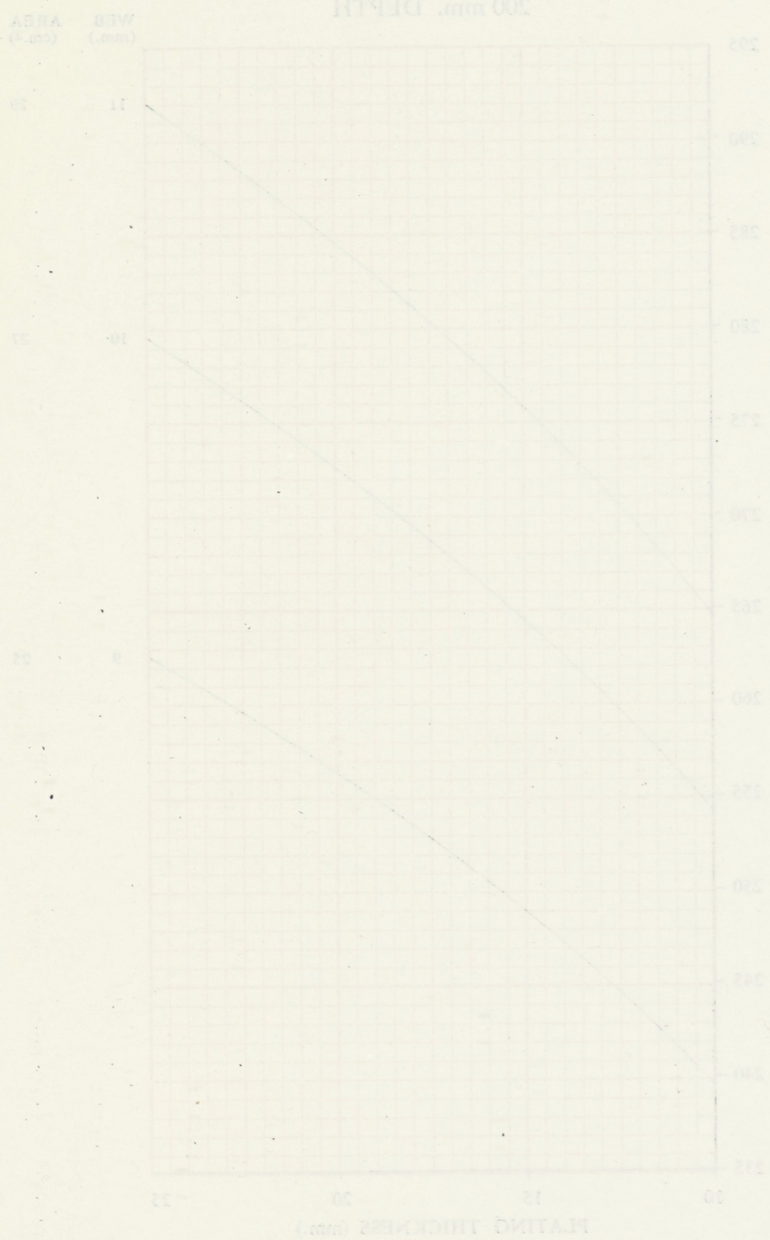
N

SECTION MODULUS AND AREA OF DOUBLE-SIDED BULB PLATES (D.P.)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

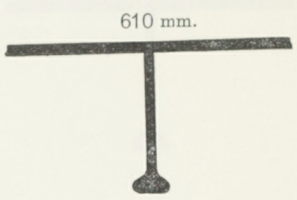




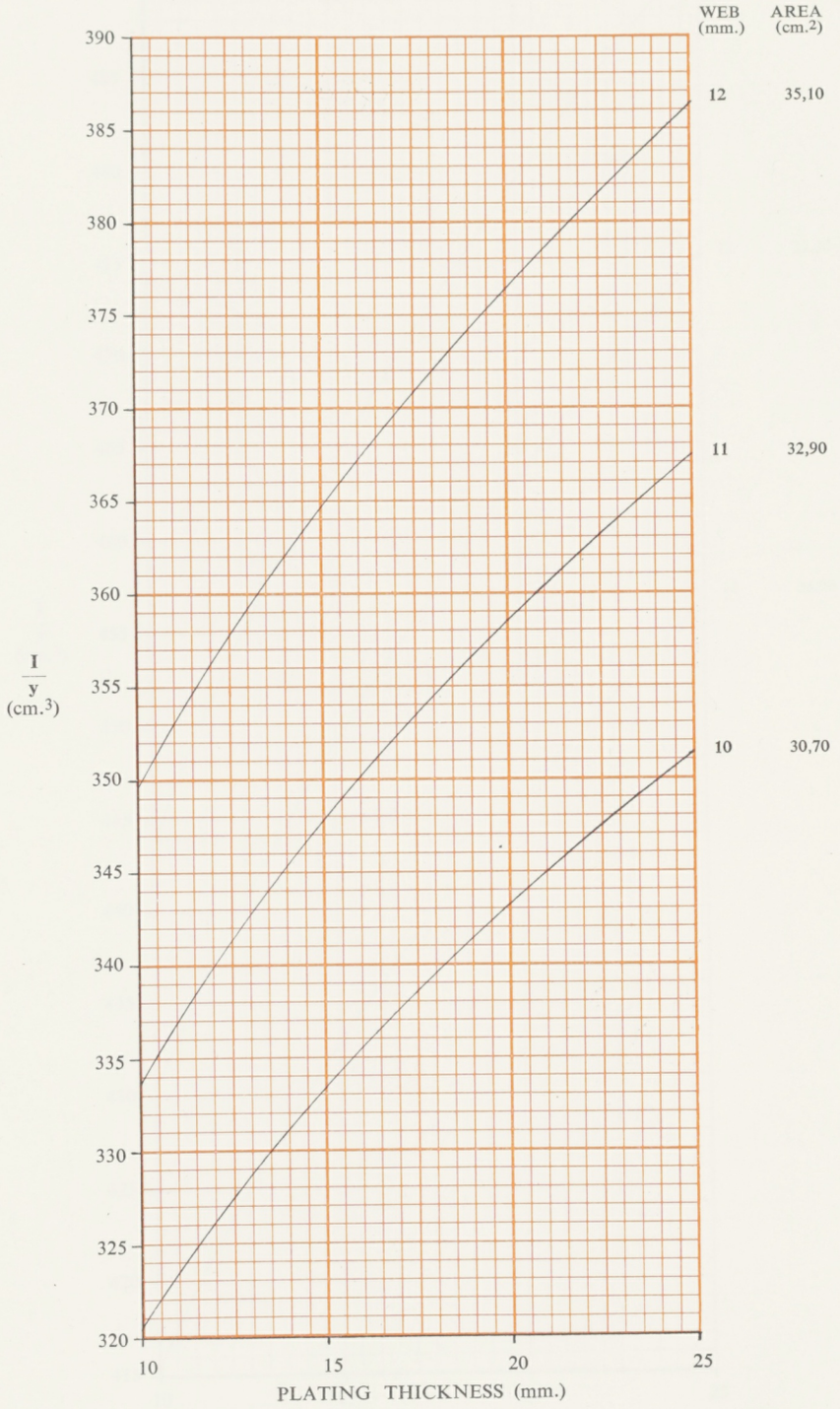


SECTION MODULUS AND AREA OF DOUBLE-SIDED BULB PLATES (D.P.)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

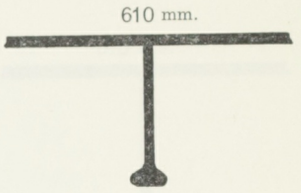


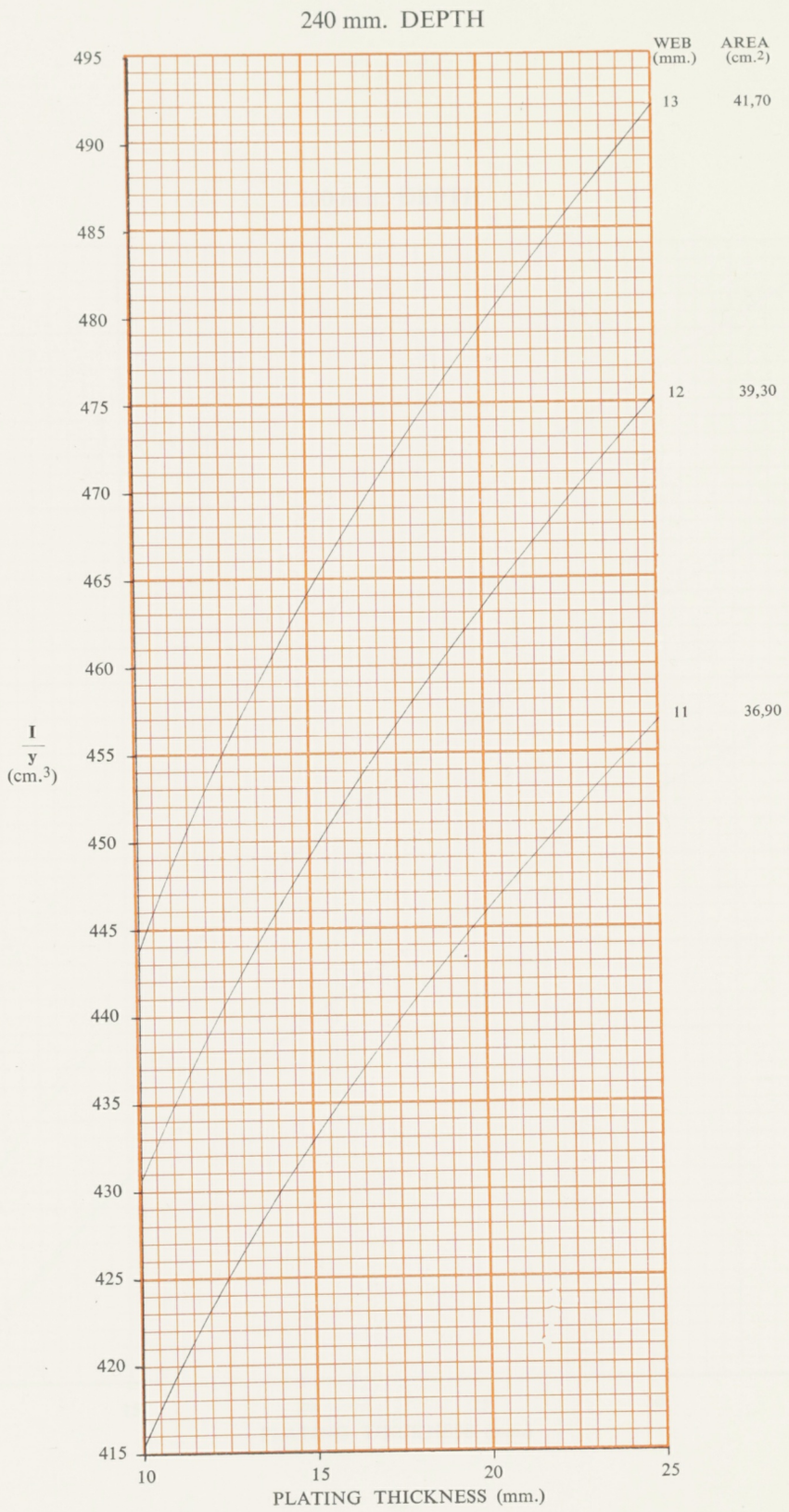
220 mm. DEPTH

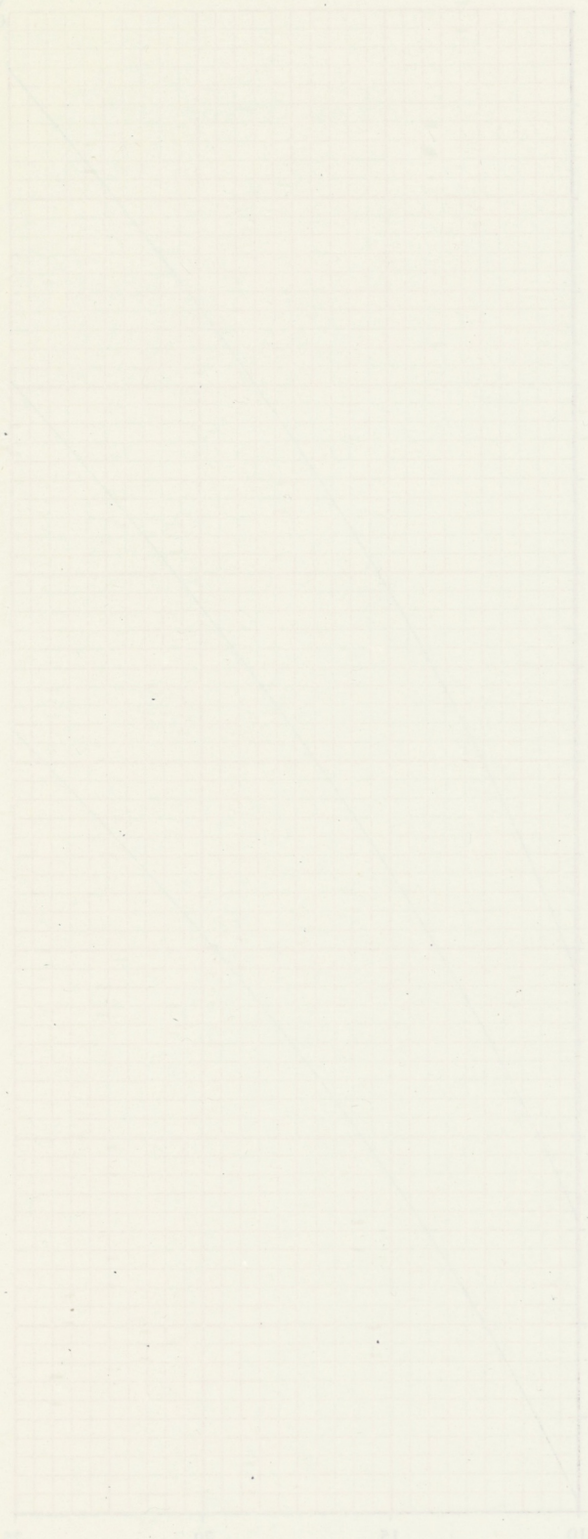


SECTION MODULUS AND AREA OF DOUBLE-SIDED BULB PLATES (D.P.)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

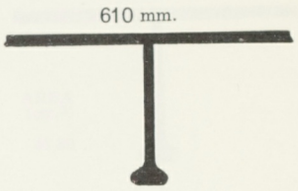




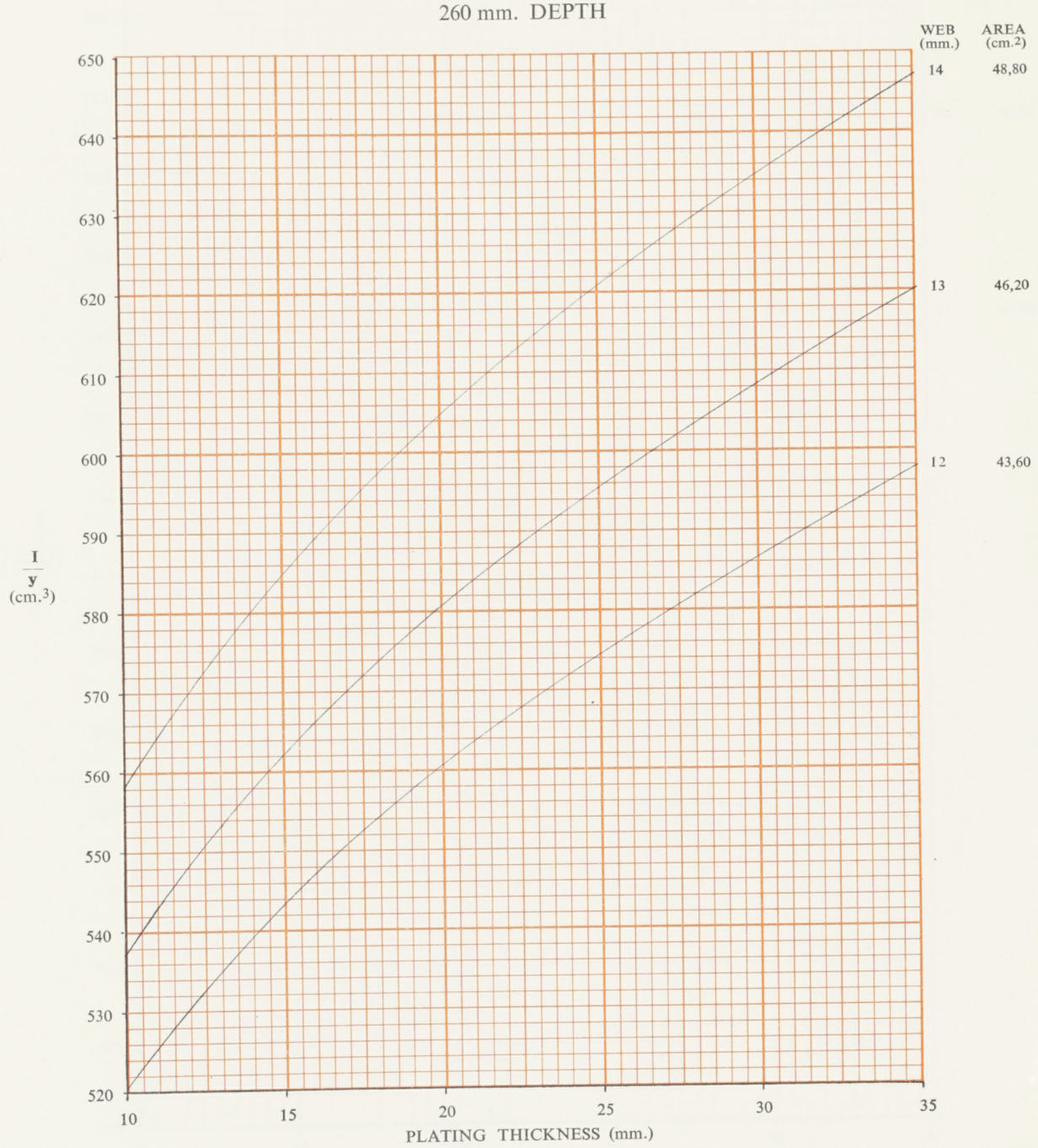


SECTION MODULUS AND AREA OF DOUBLE-SIDED BULB PLATES (D.P.)

SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

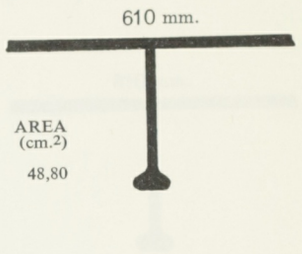


260 mm. DEPTH

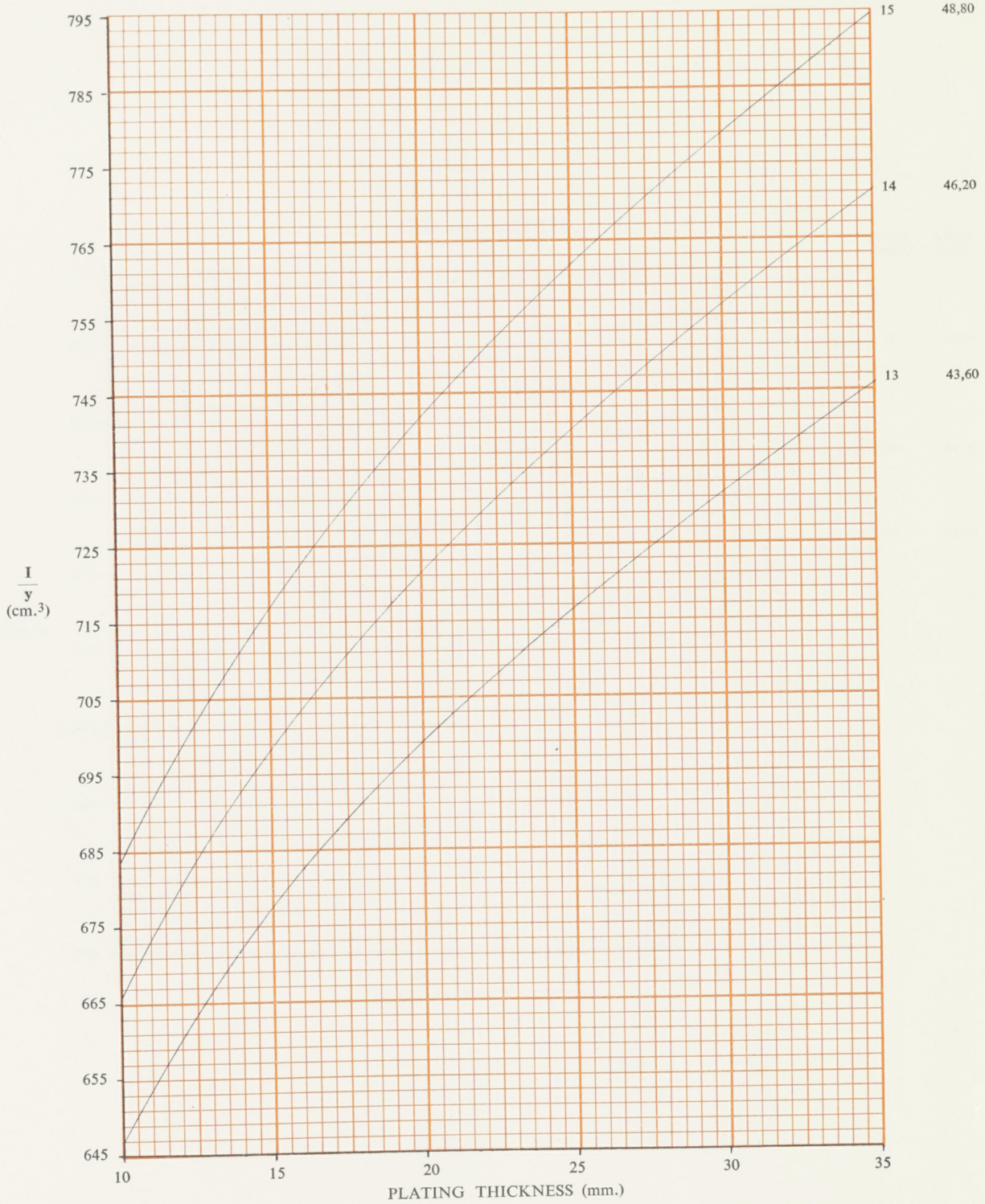


SECTION MODULUS AND AREA OF DOUBLE-SIDED BULB PLATES (D.P.)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

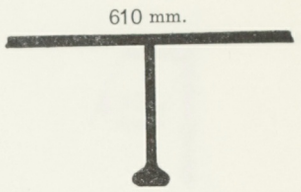


280 mm. DEPTH

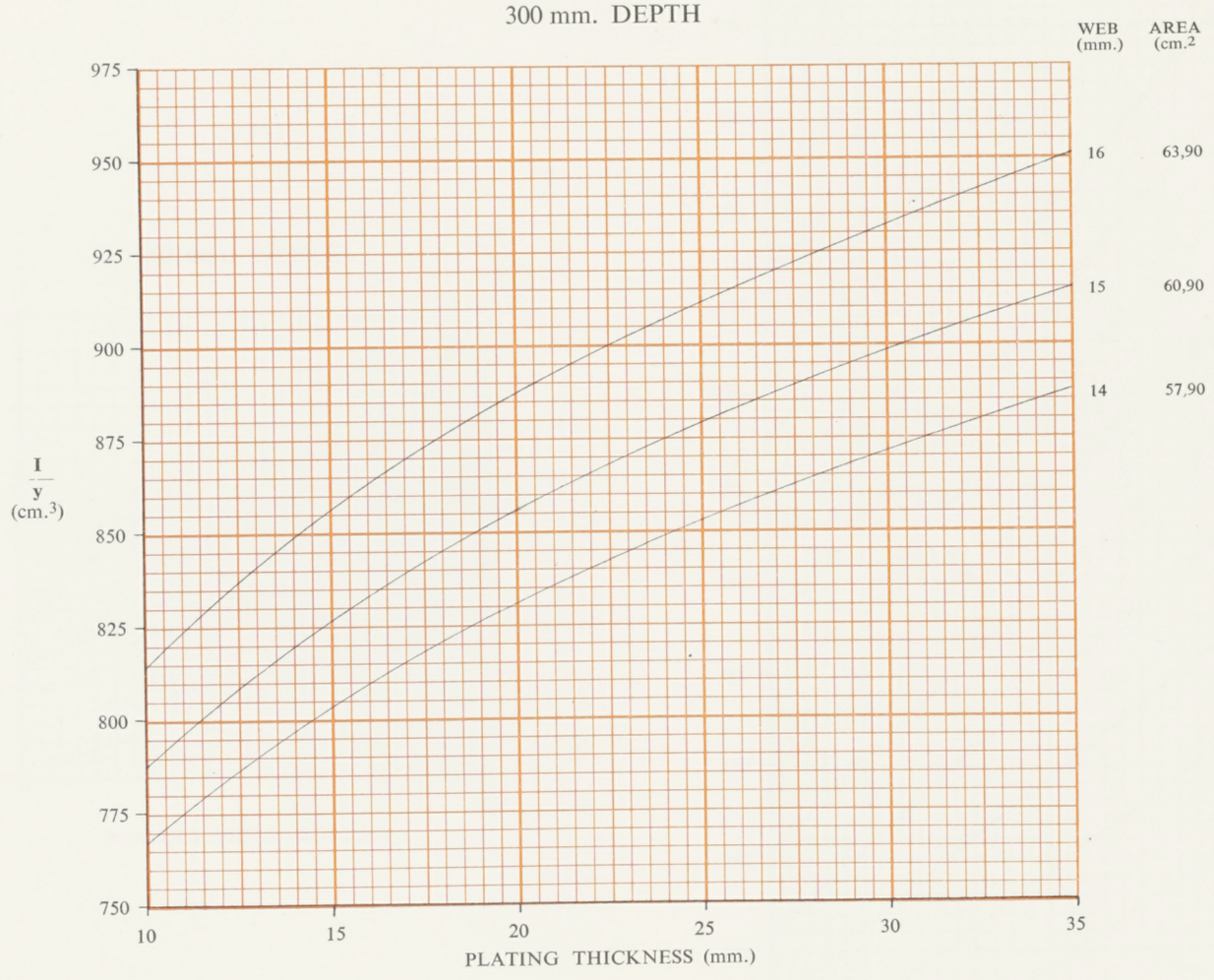


SECTION MODULUS AND AREA OF DOUBLE-SIDED BULB PLATES (D.P.)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

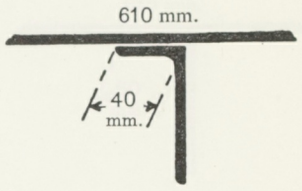


300 mm. DEPTH



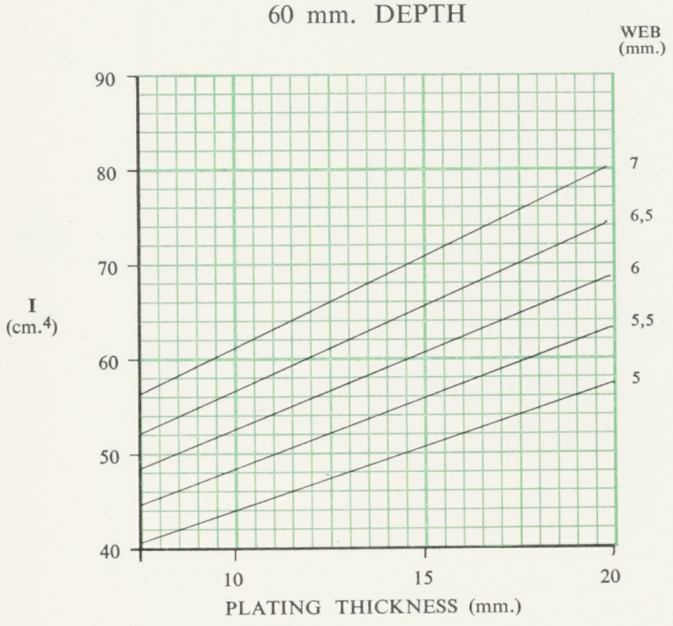
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)

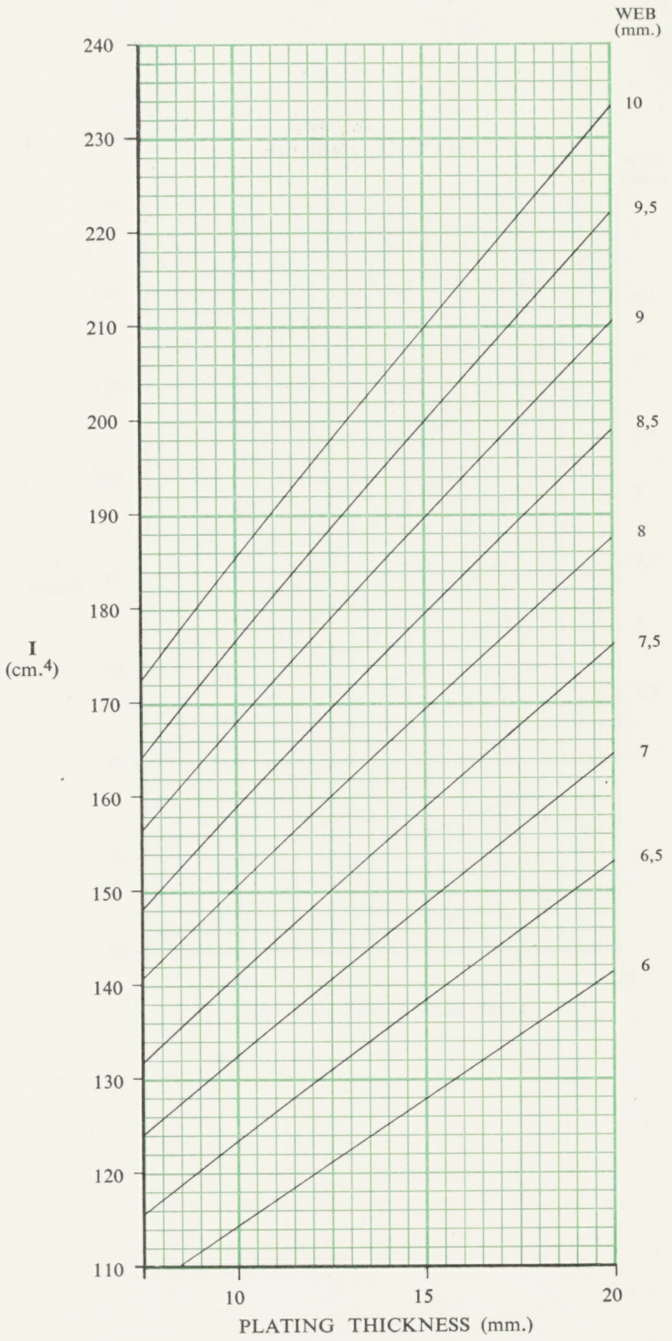


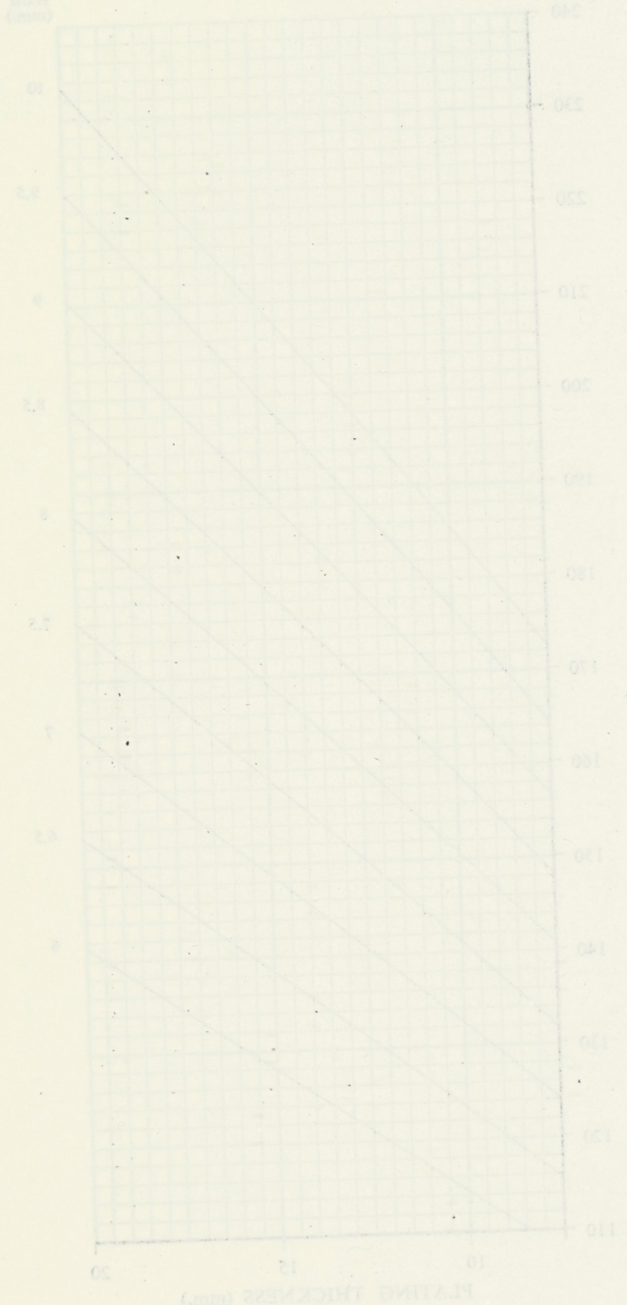
40 mm. FLANGE

60 mm. DEPTH



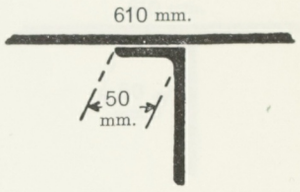
80 mm. DEPTH





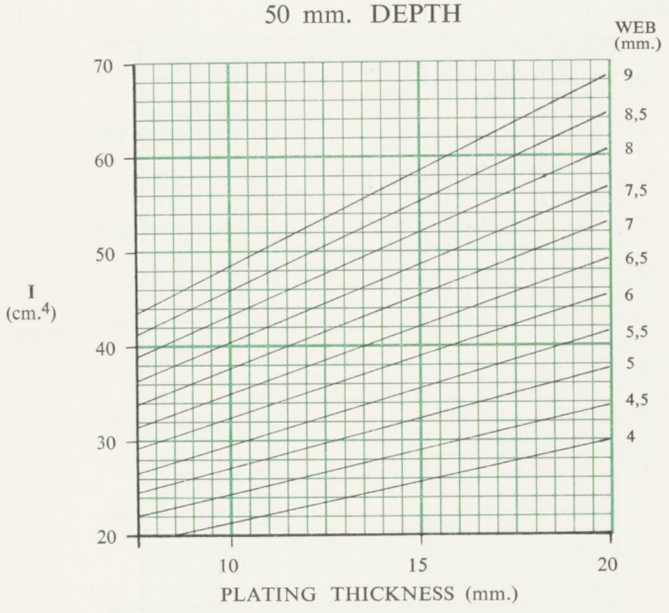
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)

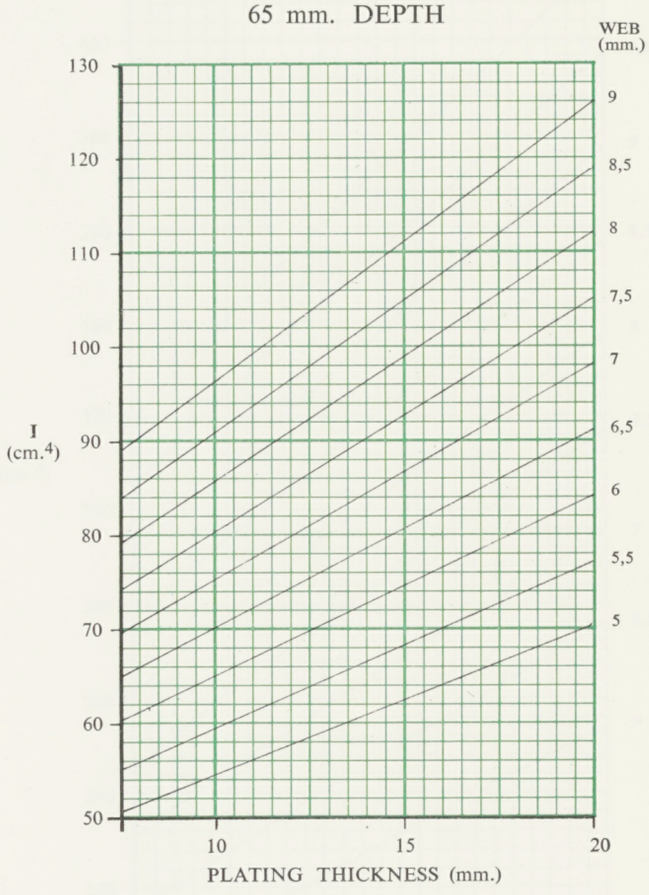


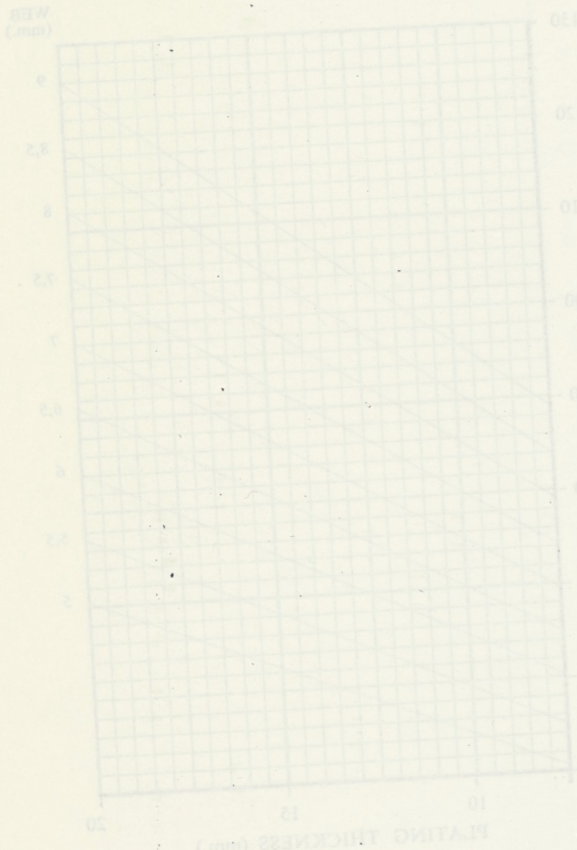
50 mm. FLANGE

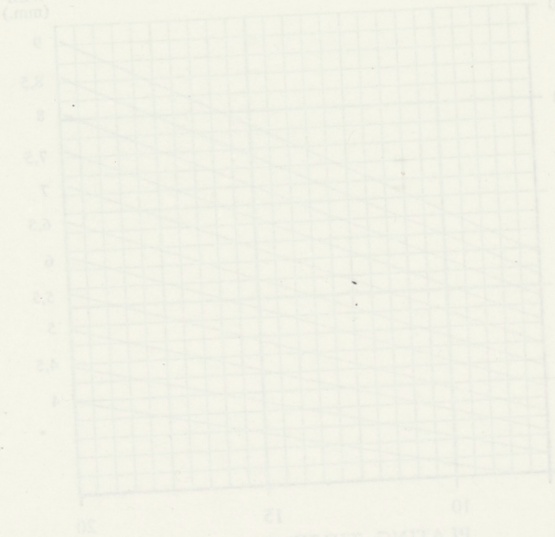
50 mm. DEPTH



65 mm. DEPTH

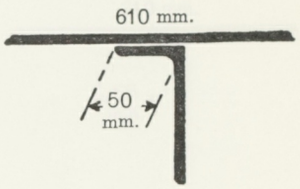






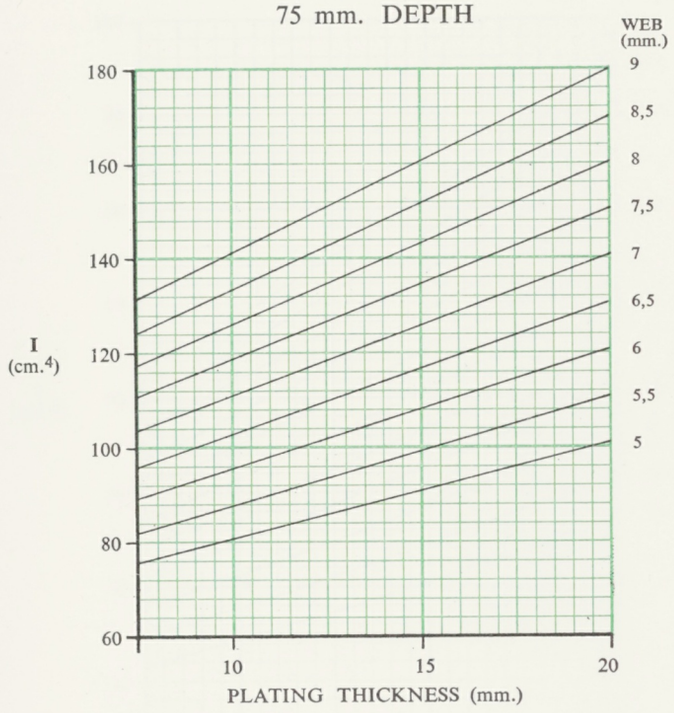
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)

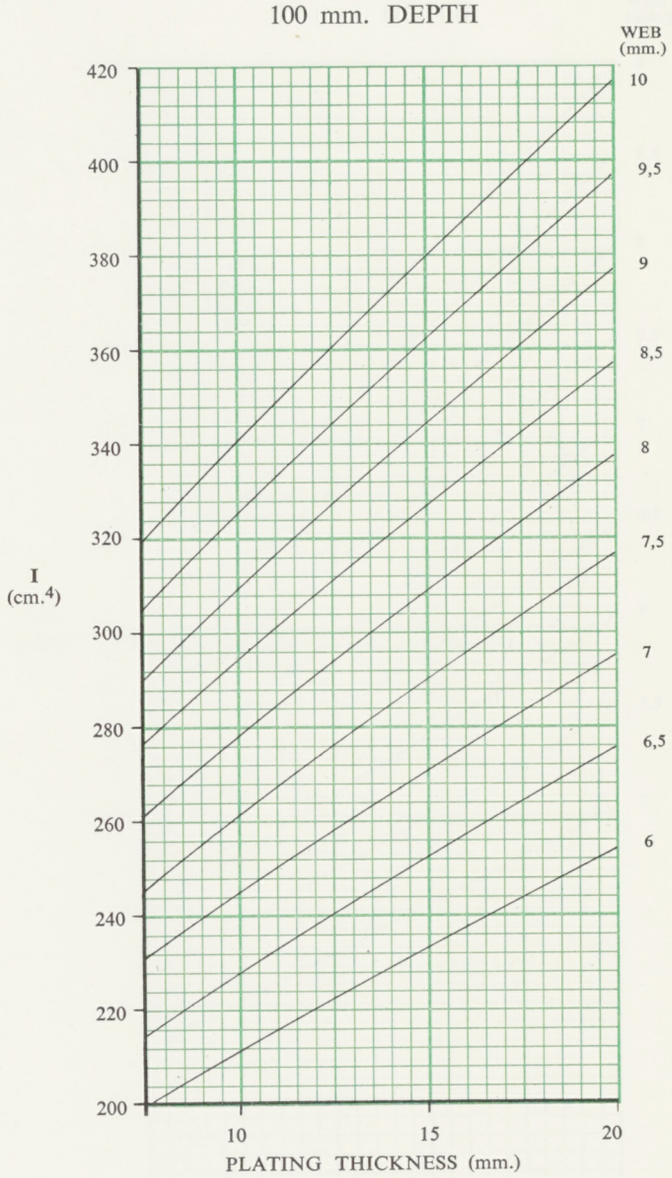


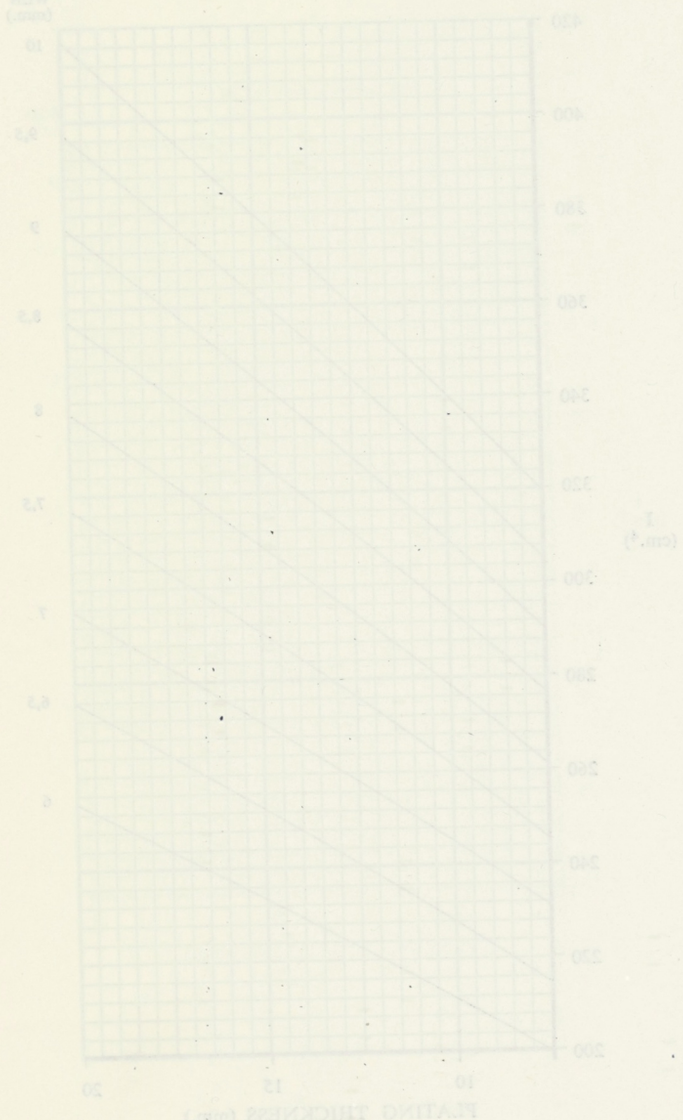
50 mm. FLANGE

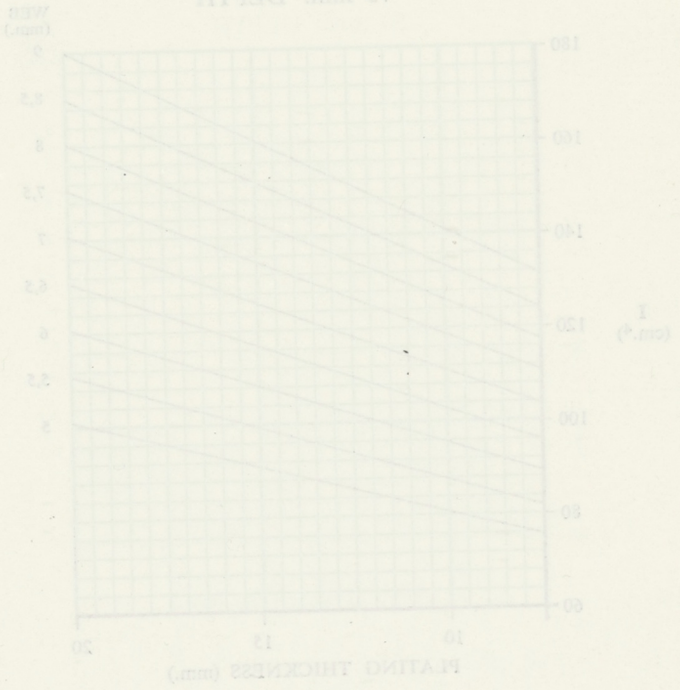
75 mm. DEPTH



100 mm. DEPTH

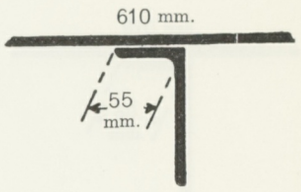






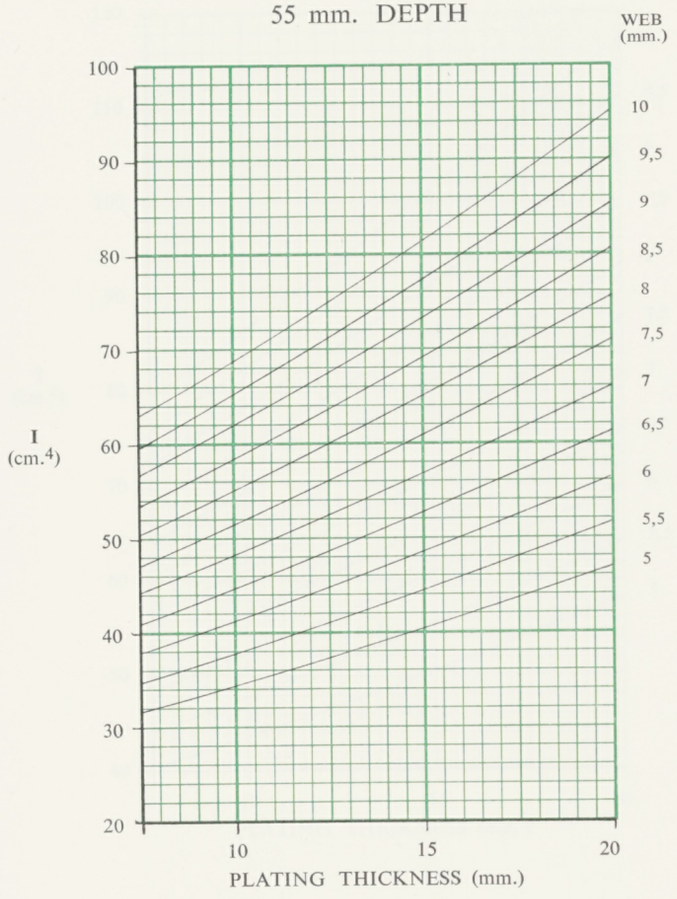
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)

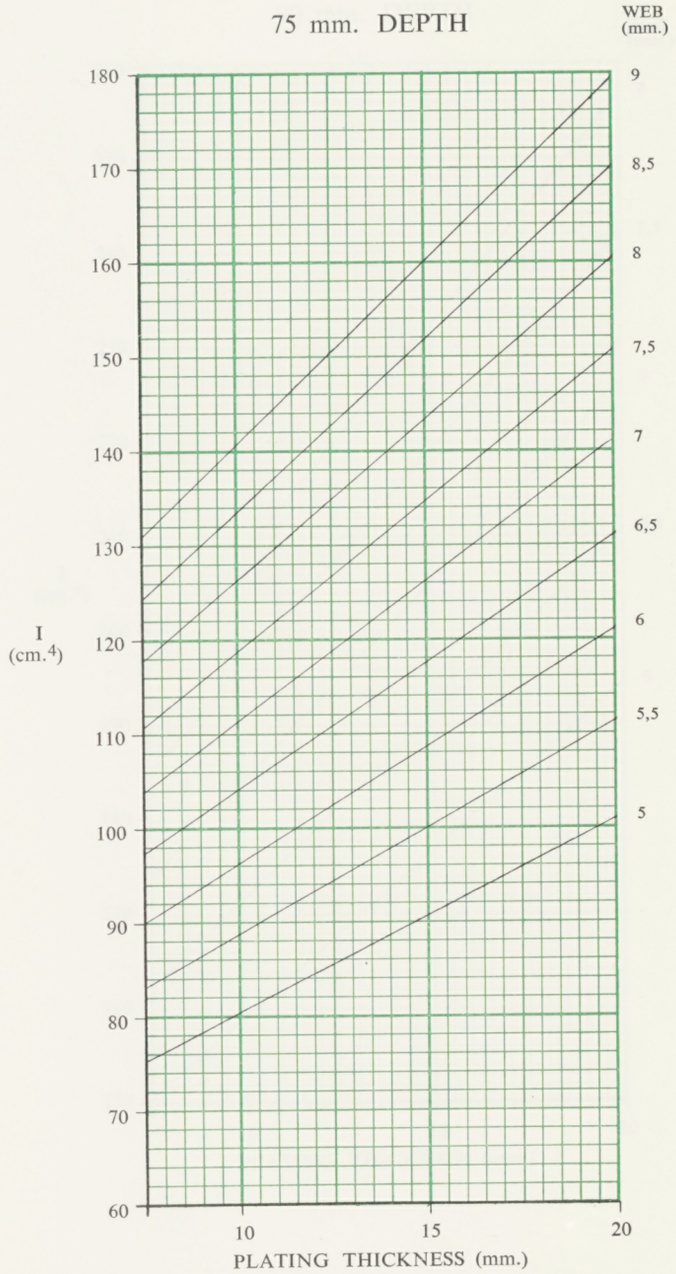


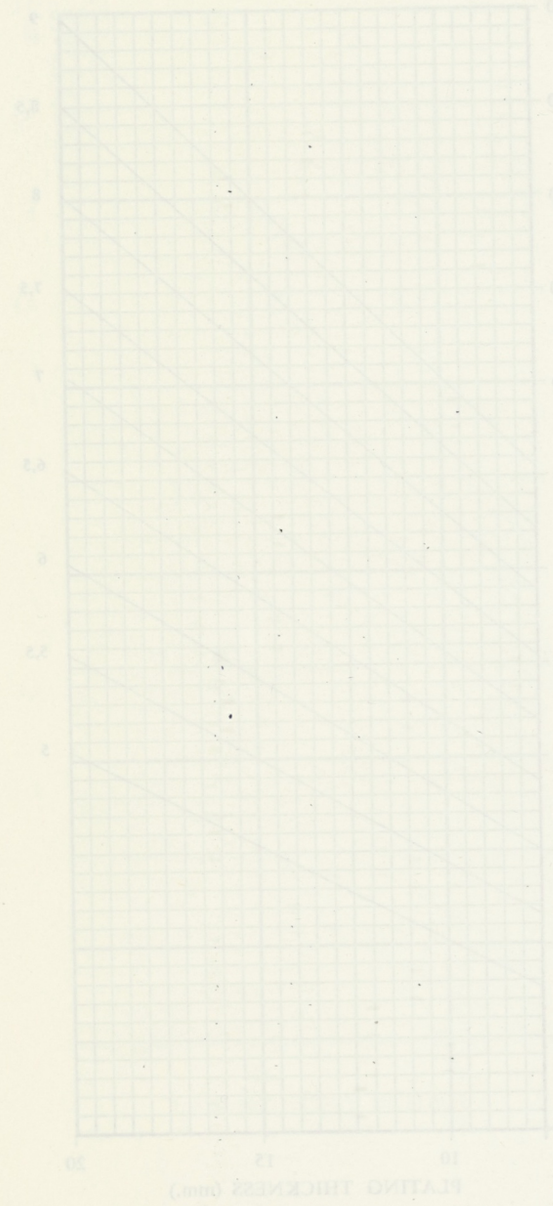
55 mm. FLANGE

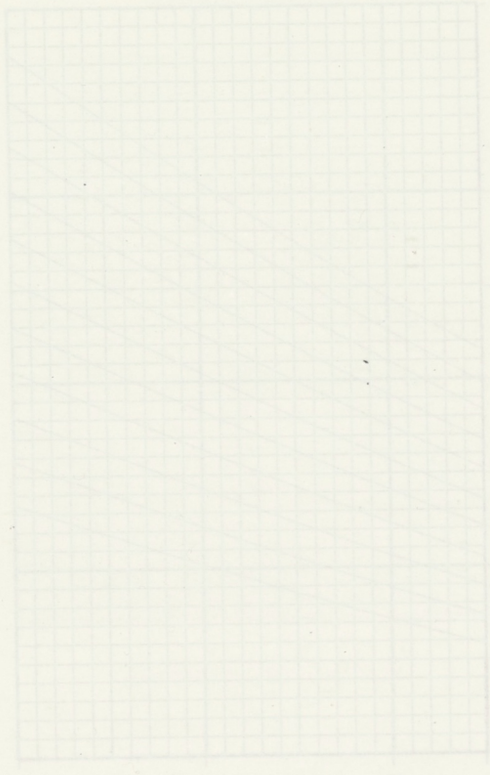
55 mm. DEPTH



75 mm. DEPTH

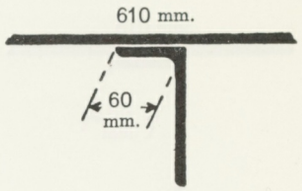






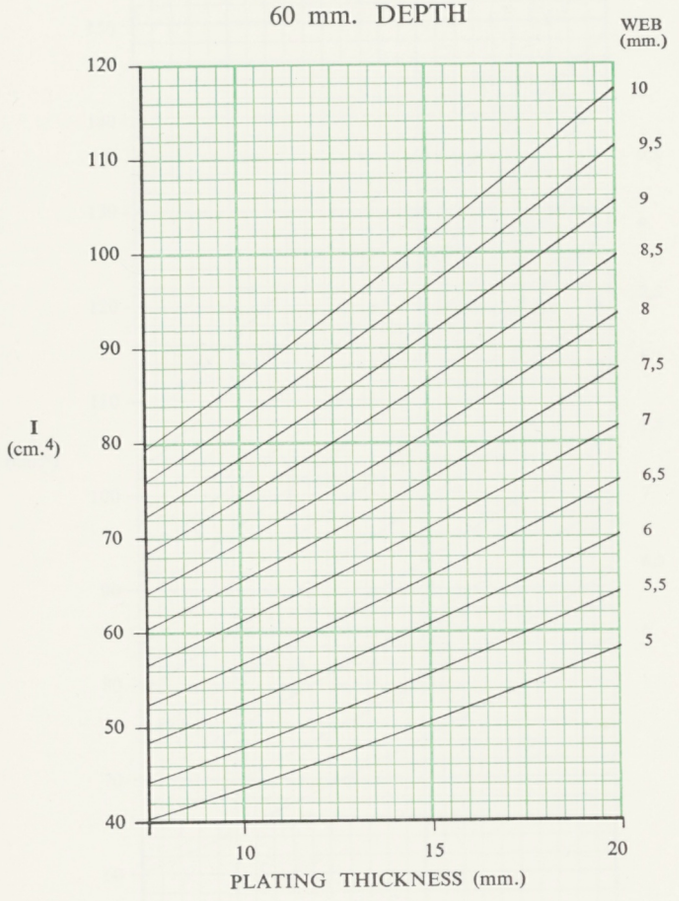
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)

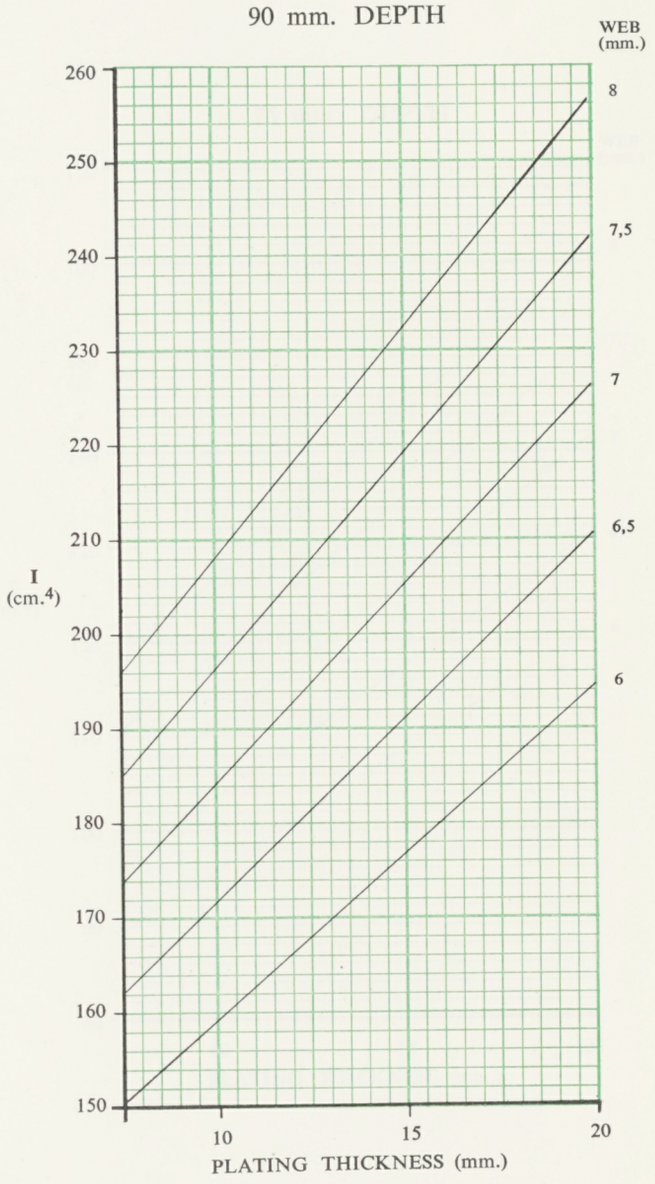


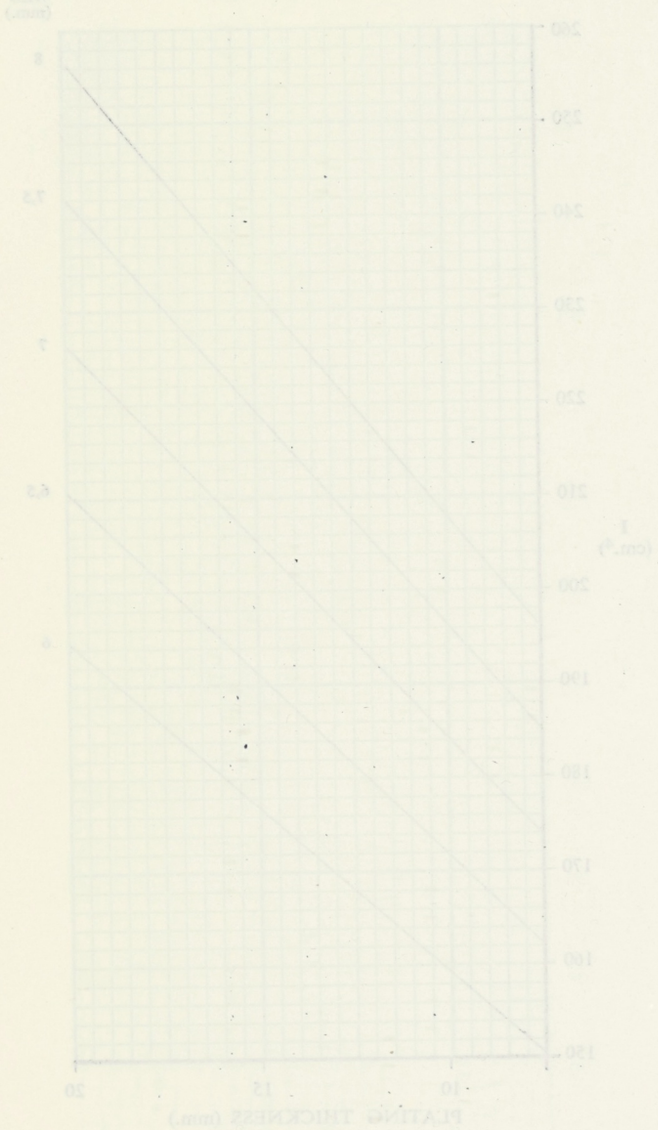
60 mm. FLANGE

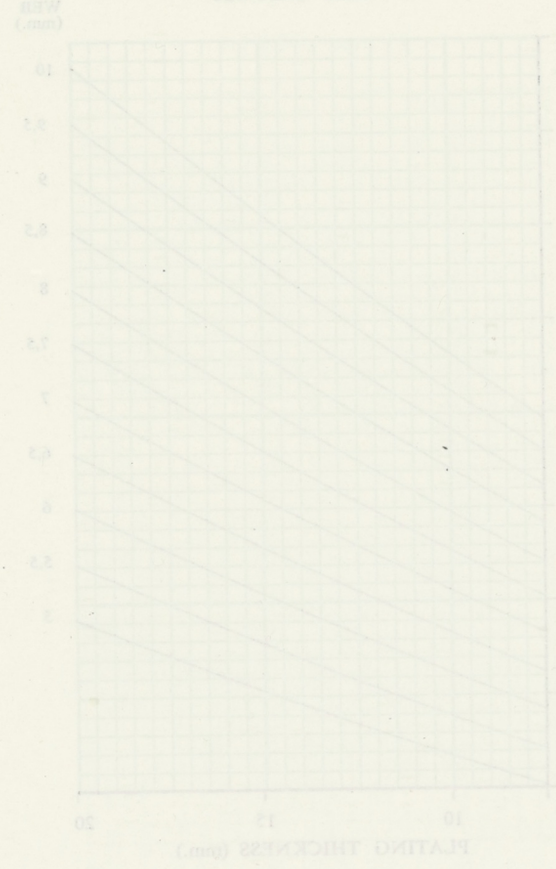
60 mm. DEPTH



90 mm. DEPTH

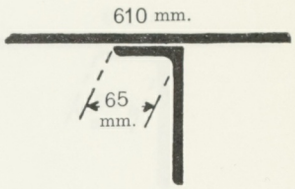






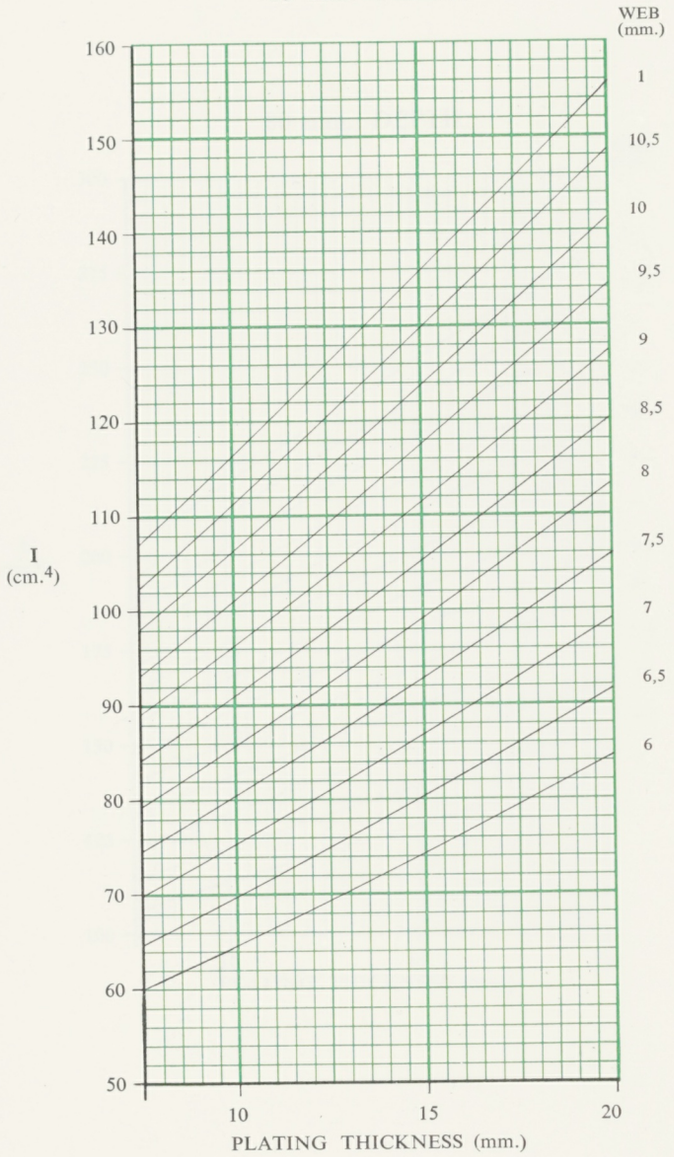
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING

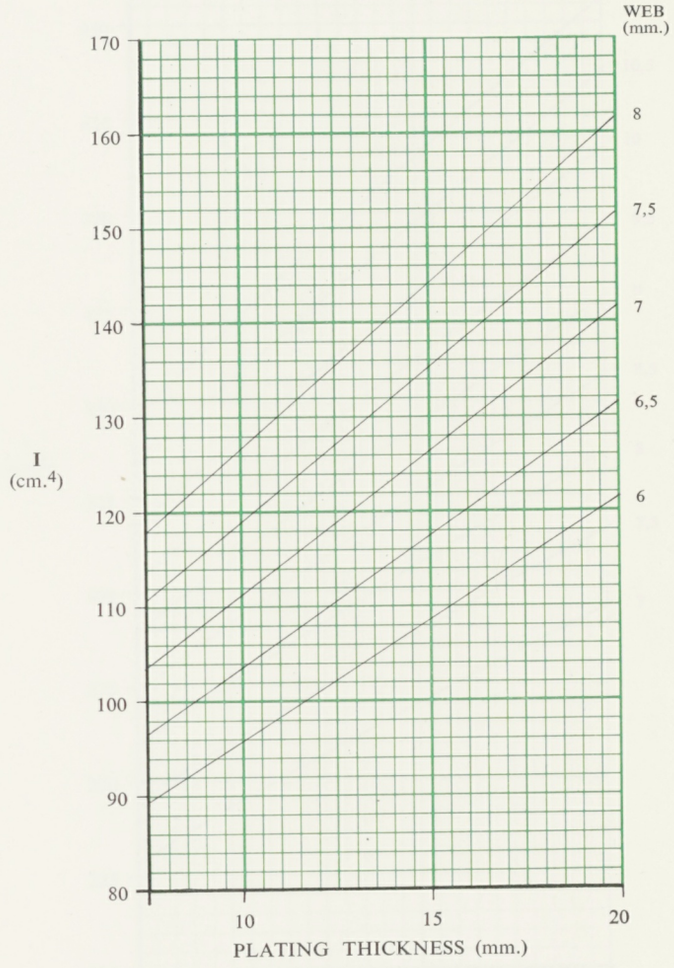


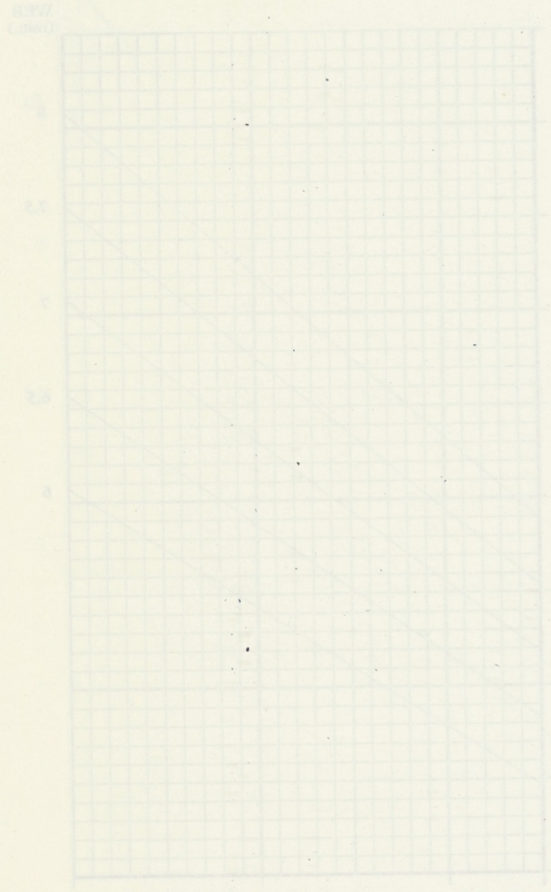
65 mm. FLANGE

65 mm. DEPTH



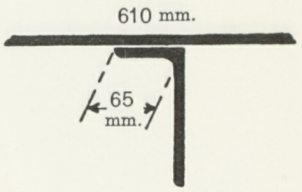
75 mm. DEPTH





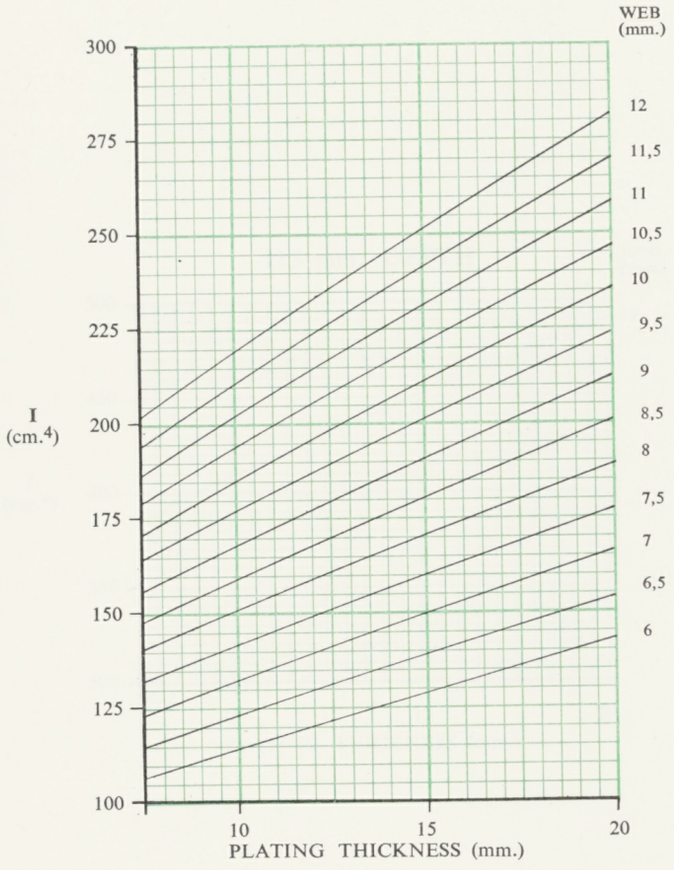
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)

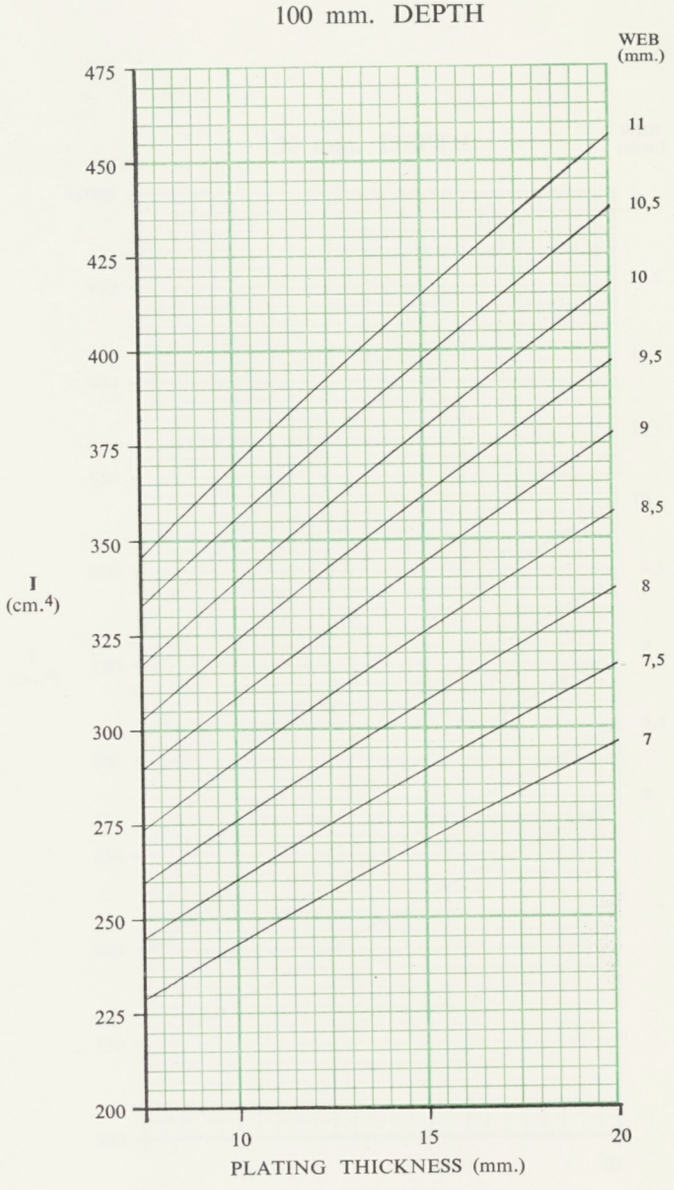


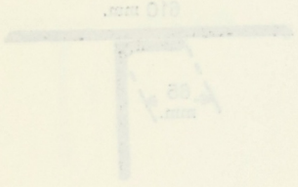
65 mm. FLANGE

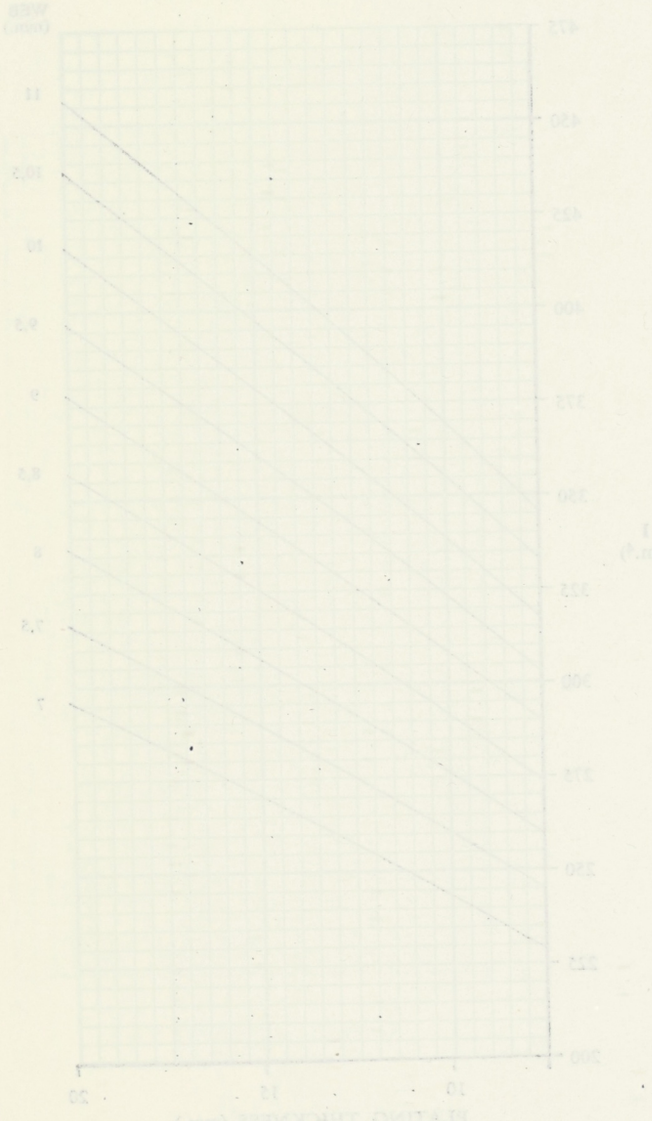
80 mm. DEPTH

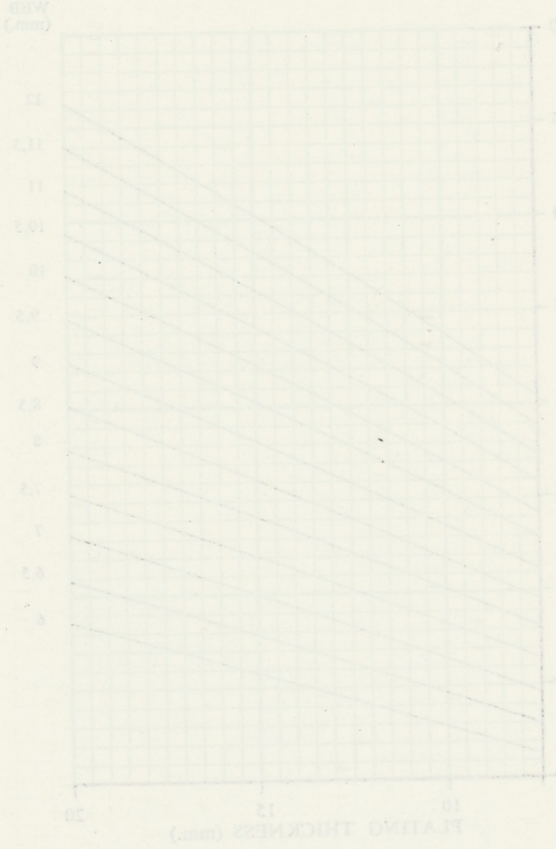


100 mm. DEPTH



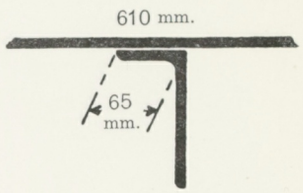




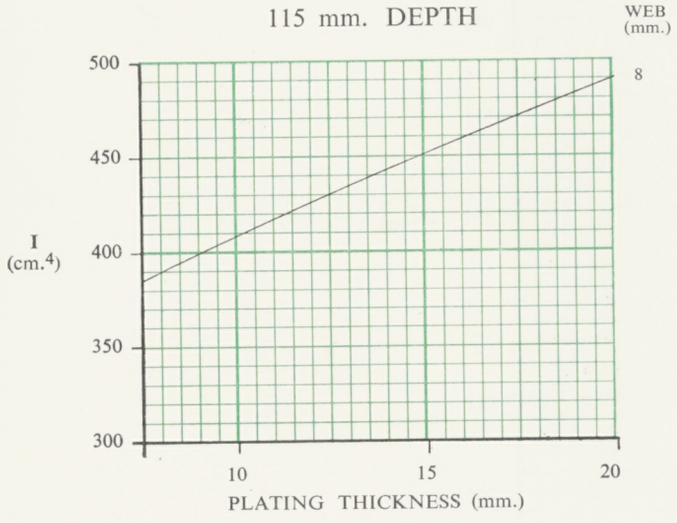


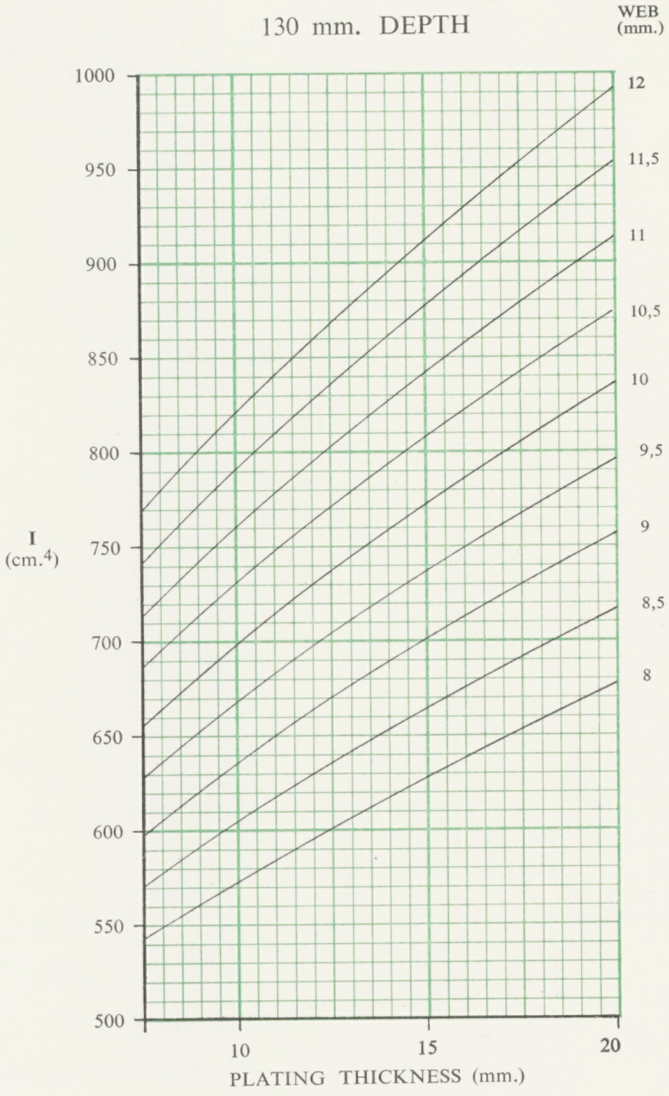
MOMENT OF INERTIA OF ORDINARY ANGLES

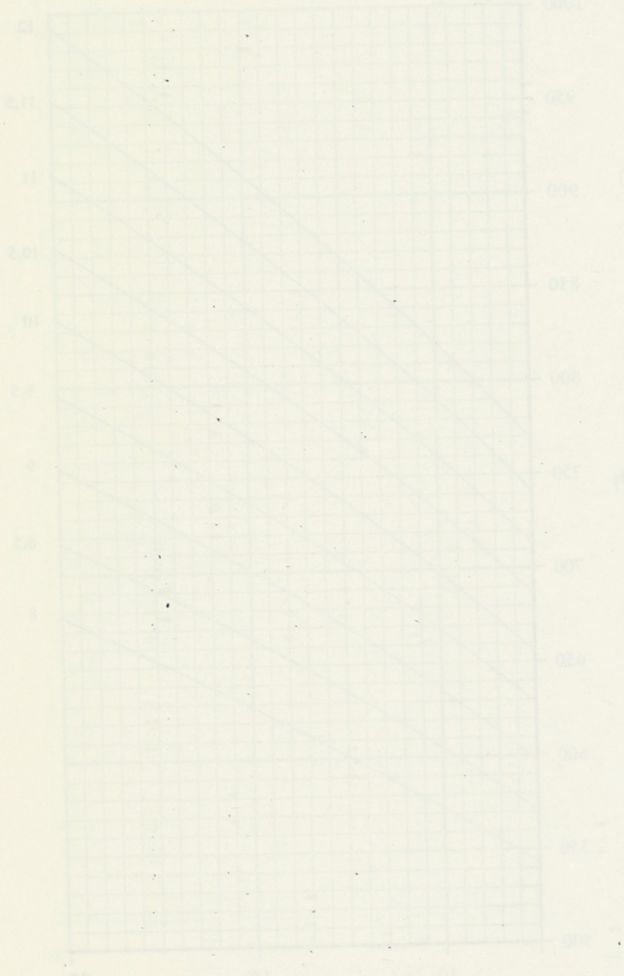
(WITH PLATING)



65 mm. FLANGE







MOMENT OF INERTIA OF ORDINARY ANGLES

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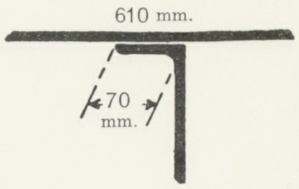
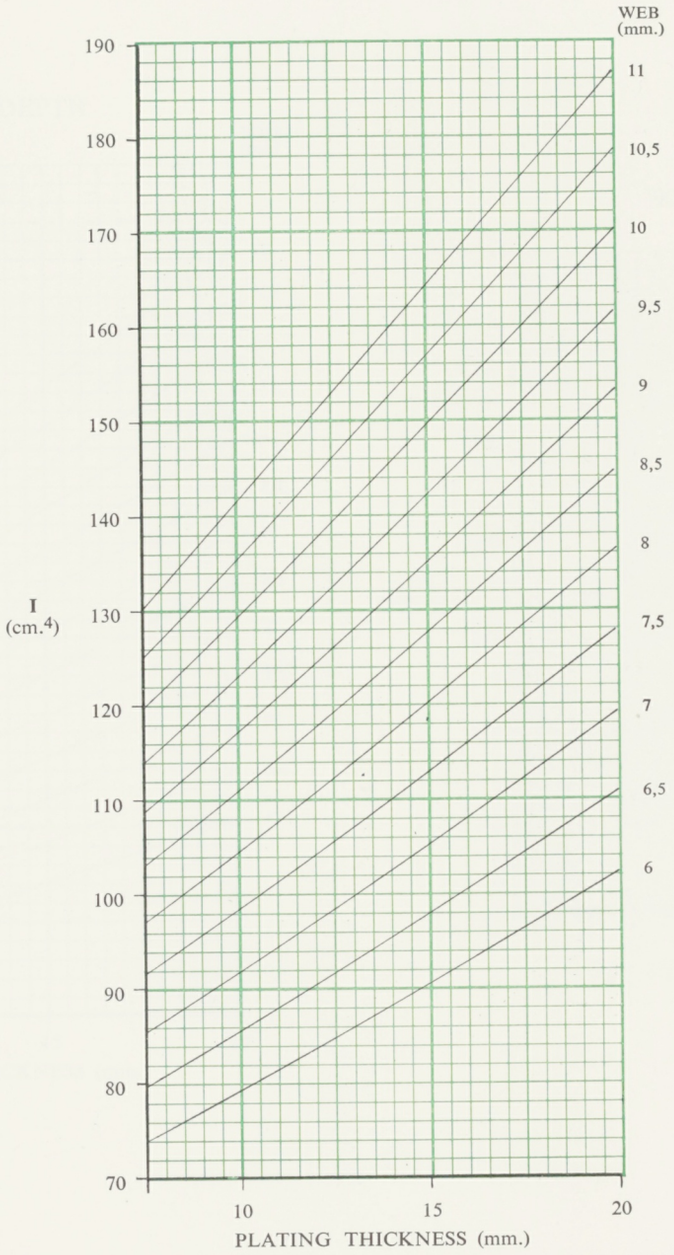


70 mm. FLANGE

70 mm. DEPTH



MOMENT OF INERTIA OF ORDINARY ANGLES

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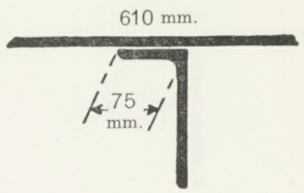
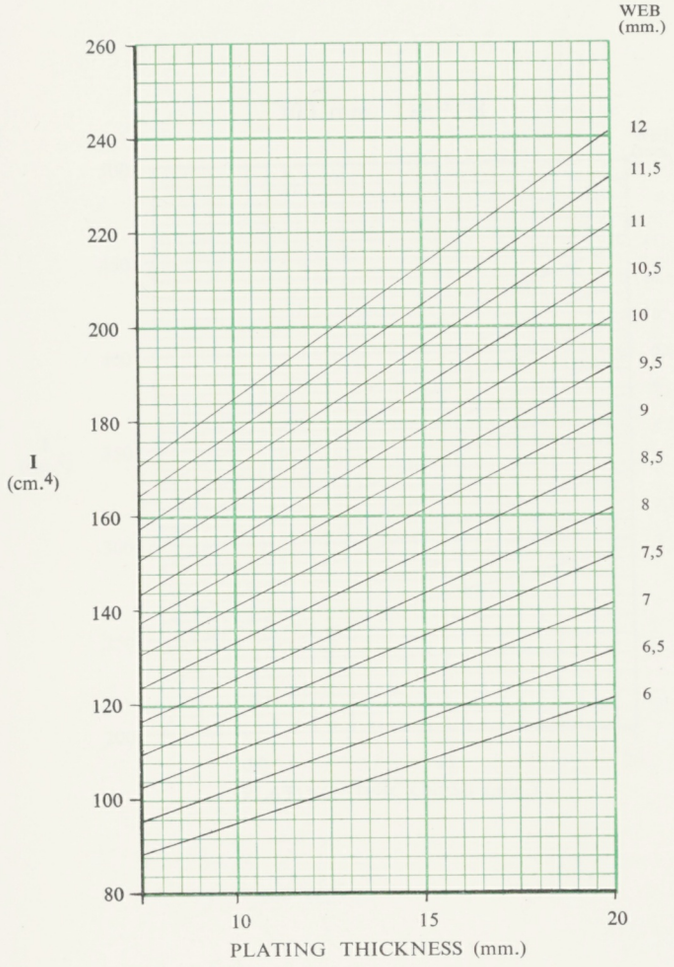
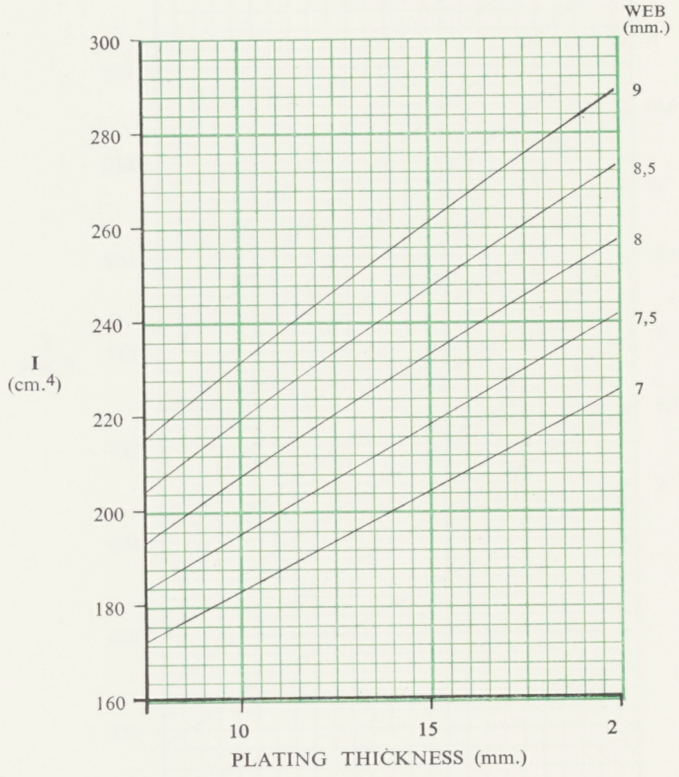


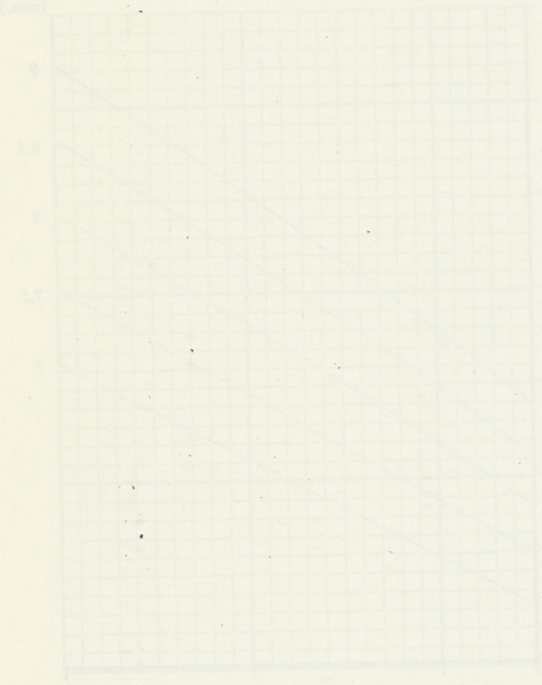
75 mm. FLANGE

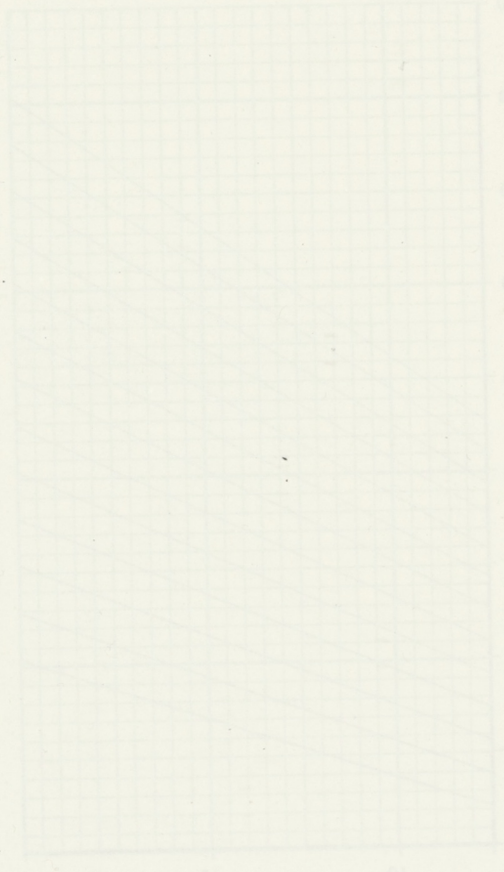
75 mm. DEPTH



90 mm. DEPTH

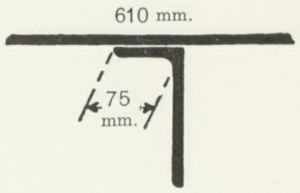






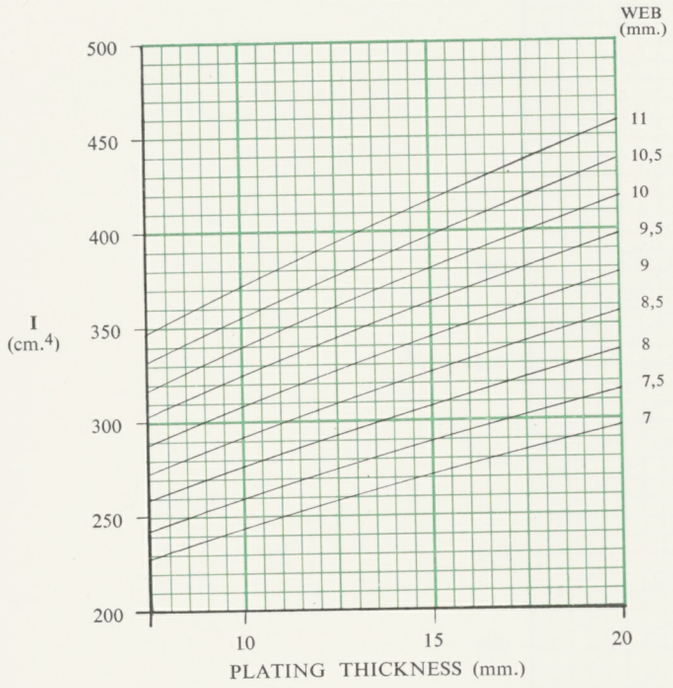
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)

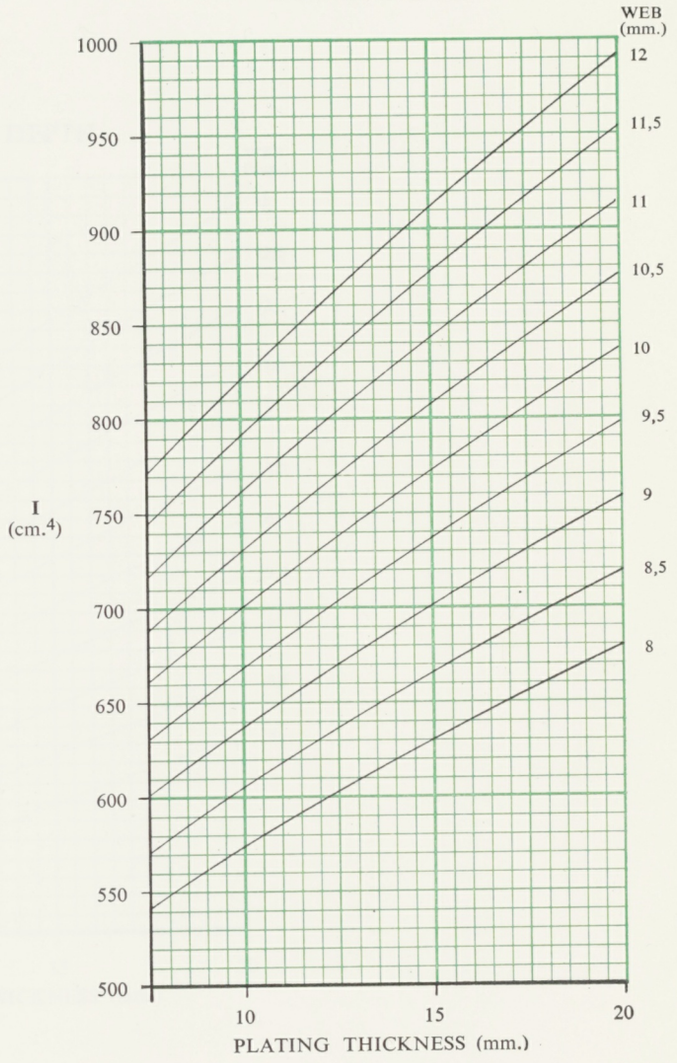


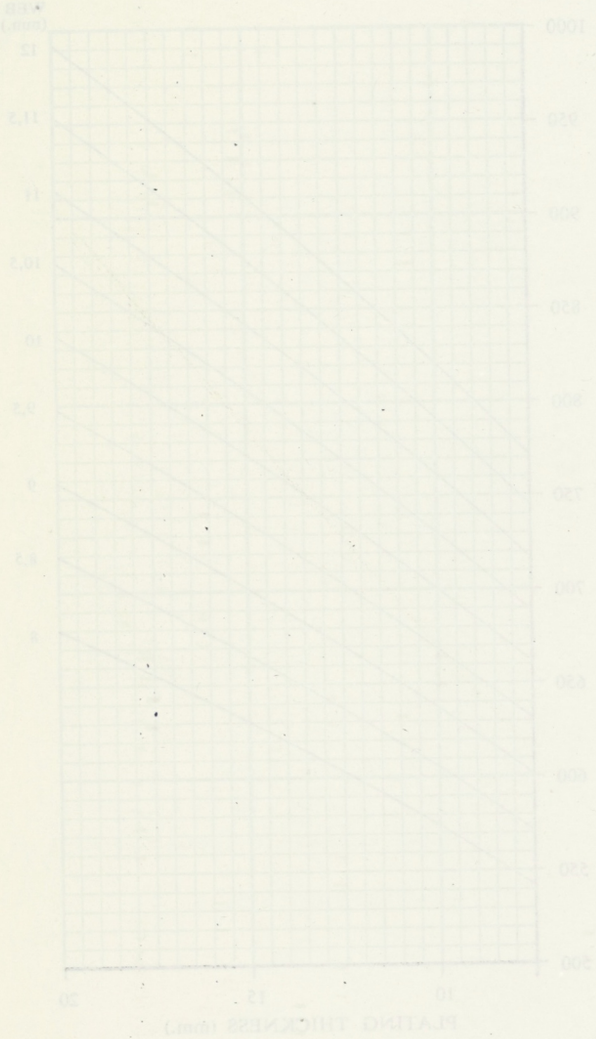
75 mm. FLANGE

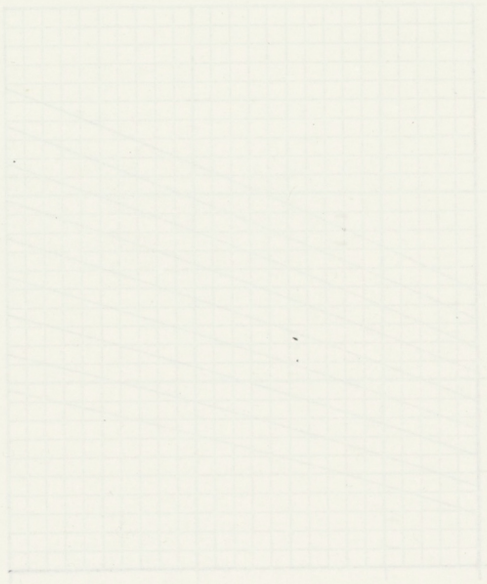
100 mm. DEPTH



130 mm. DEPTH







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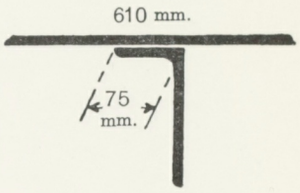
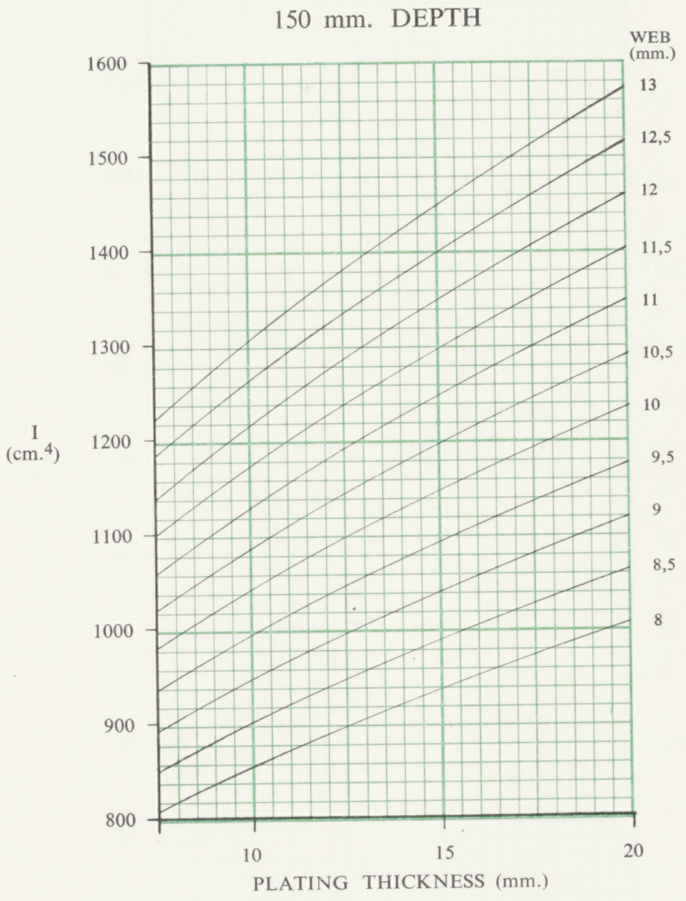
(WITH PLATING)

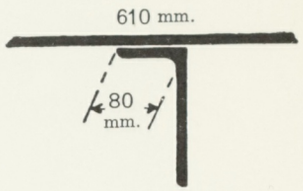


75 mm. FLANGE

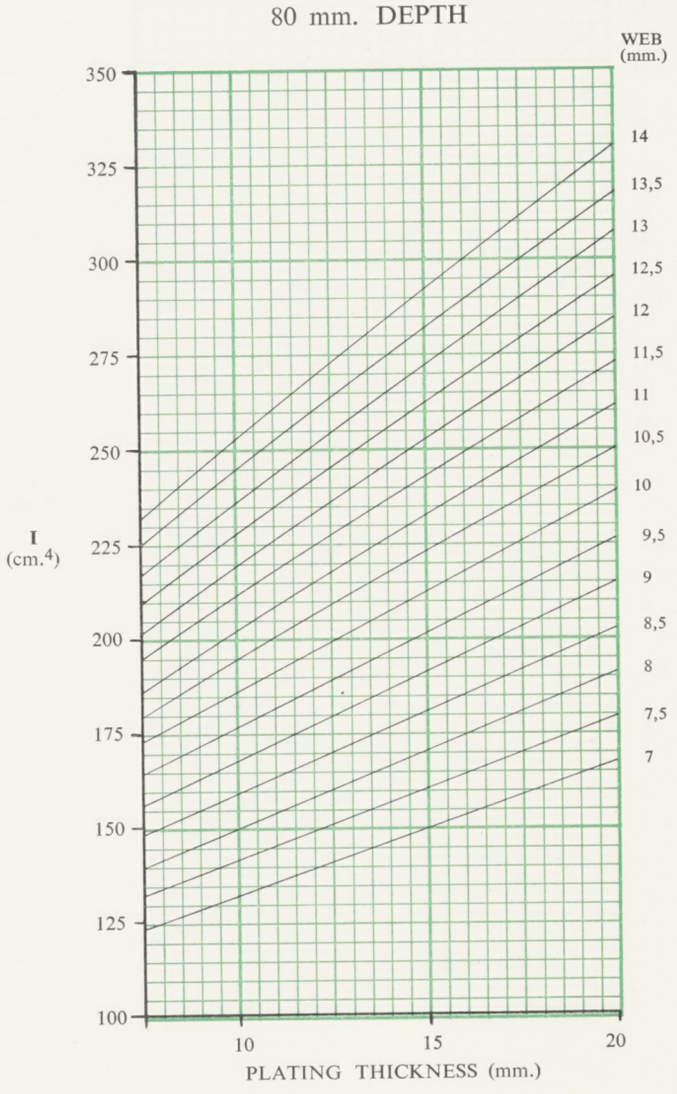


MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)

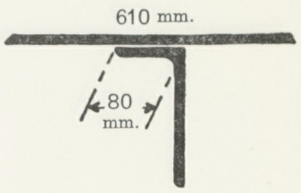


80 mm. FLANGE



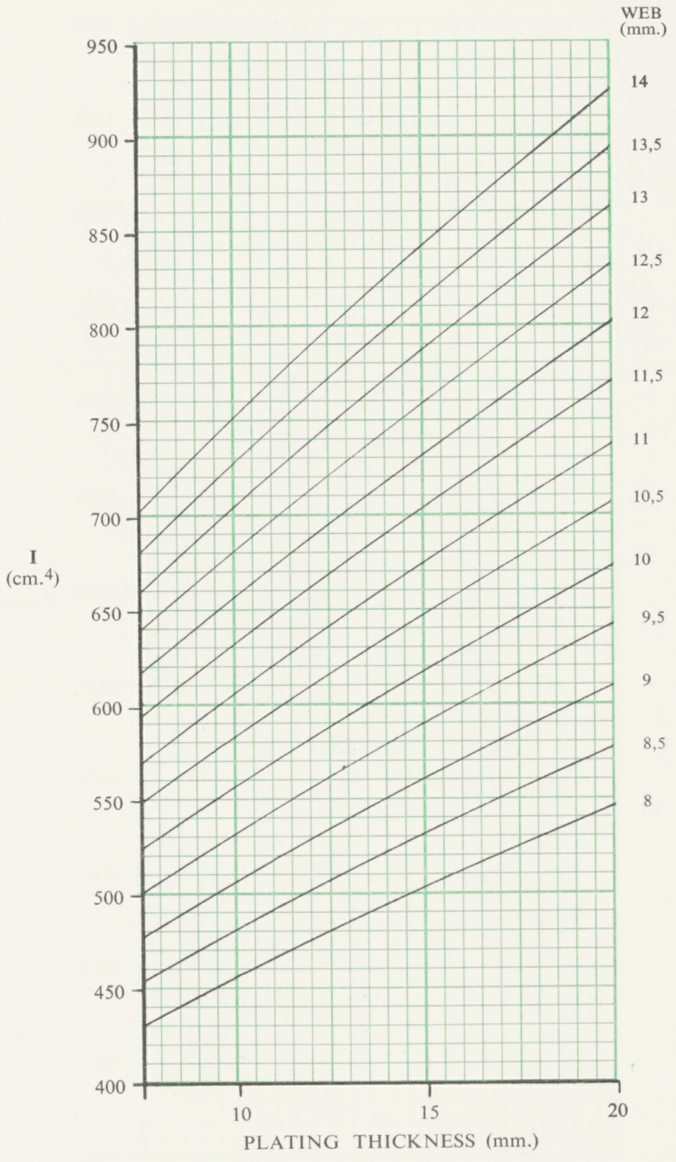
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)



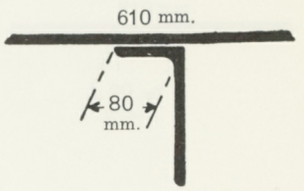
80 mm. FLANGE

120 mm. DEPTH

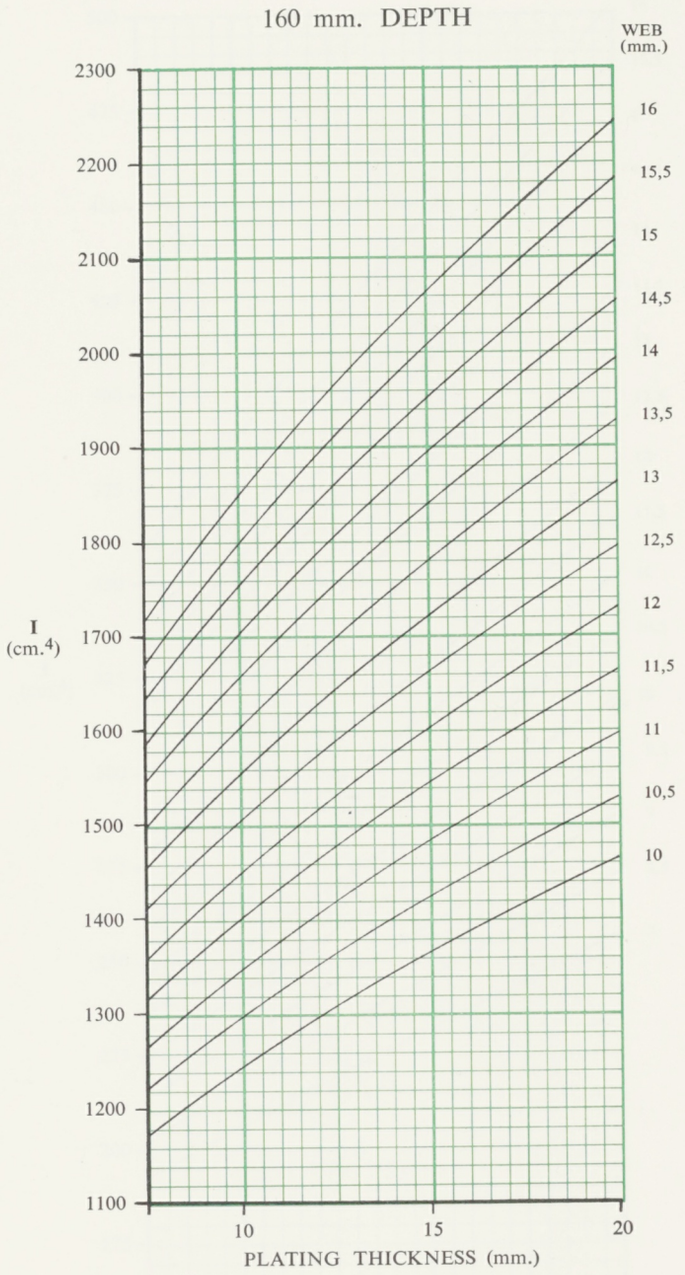


MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)

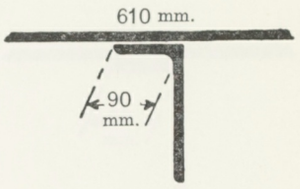


80 mm. FLANGE

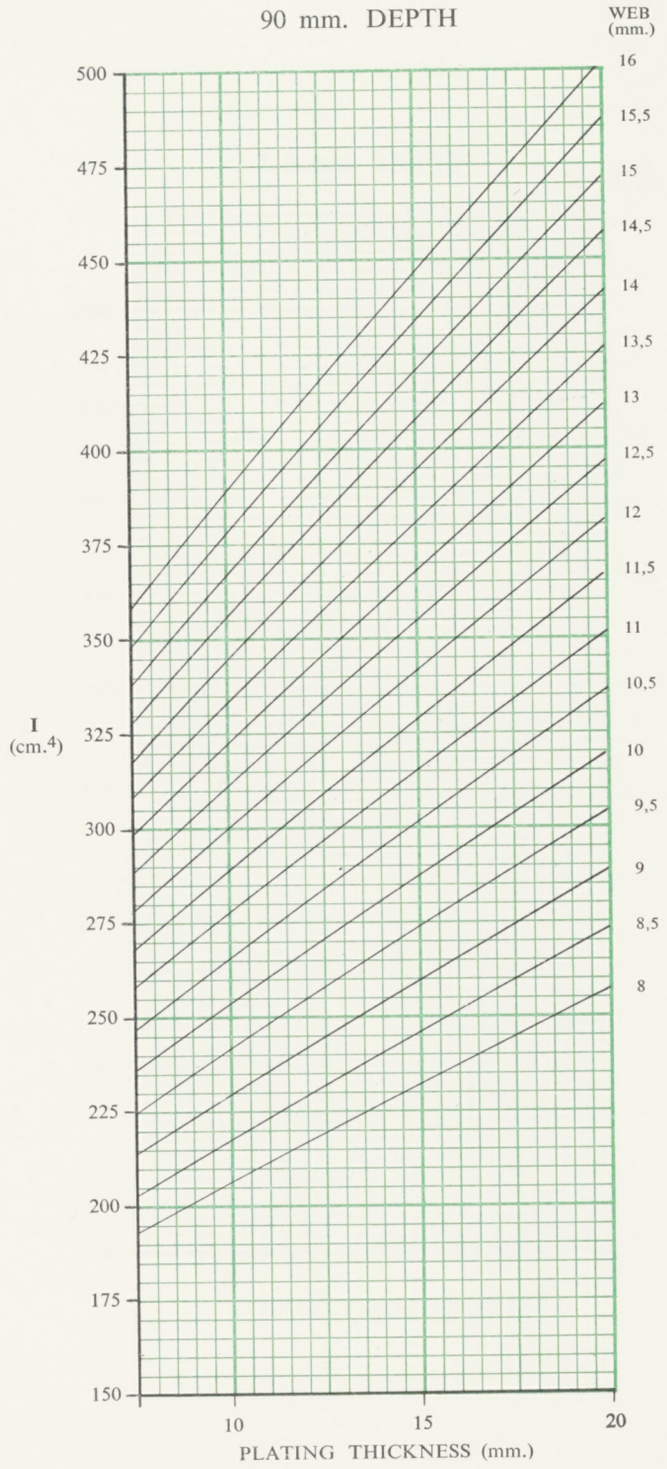


MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)



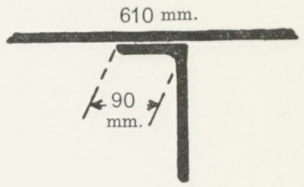
90 mm. FLANGE



R

MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)



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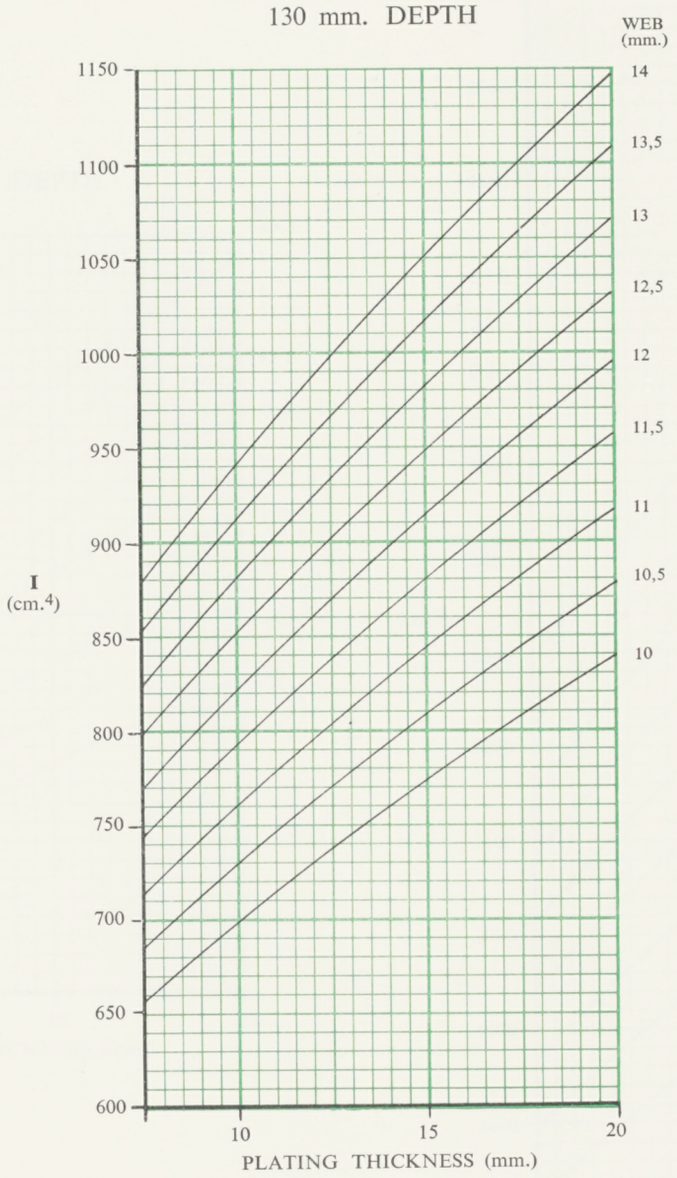
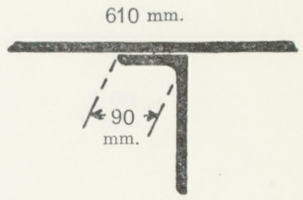


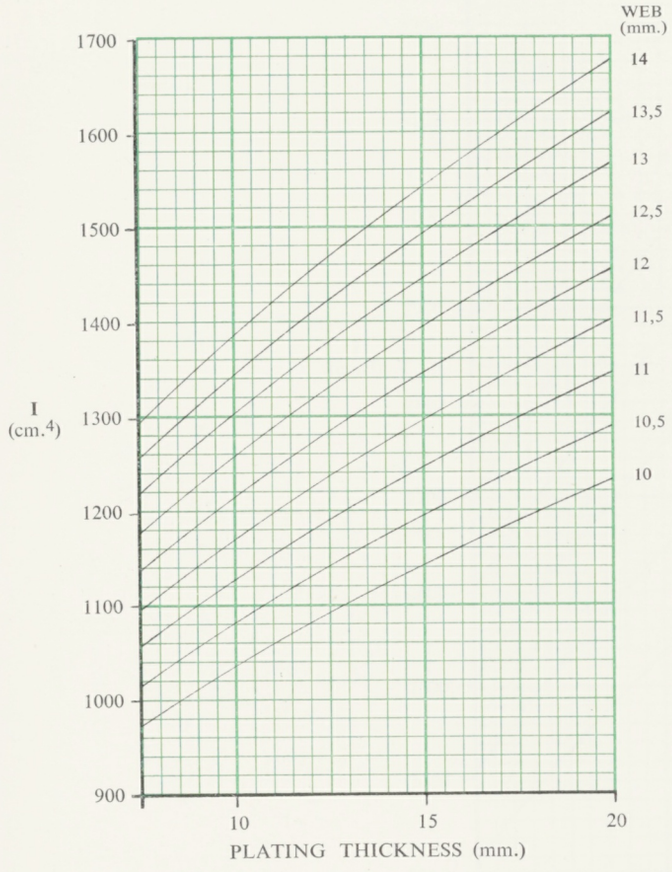
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)

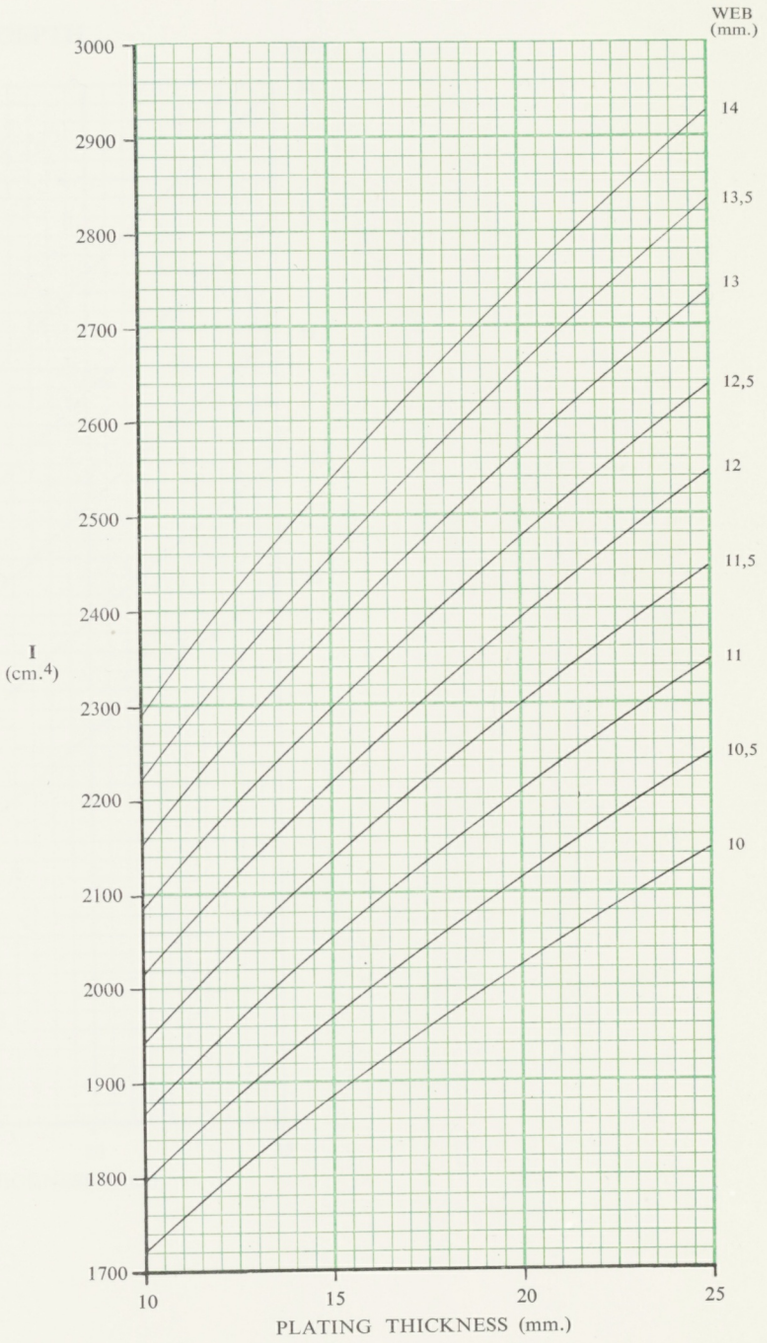


90 mm. FLANGE

150 mm. DEPTH

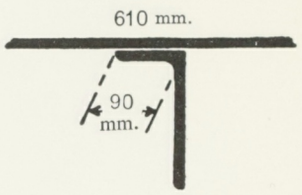


180 mm. DEPTH



MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)



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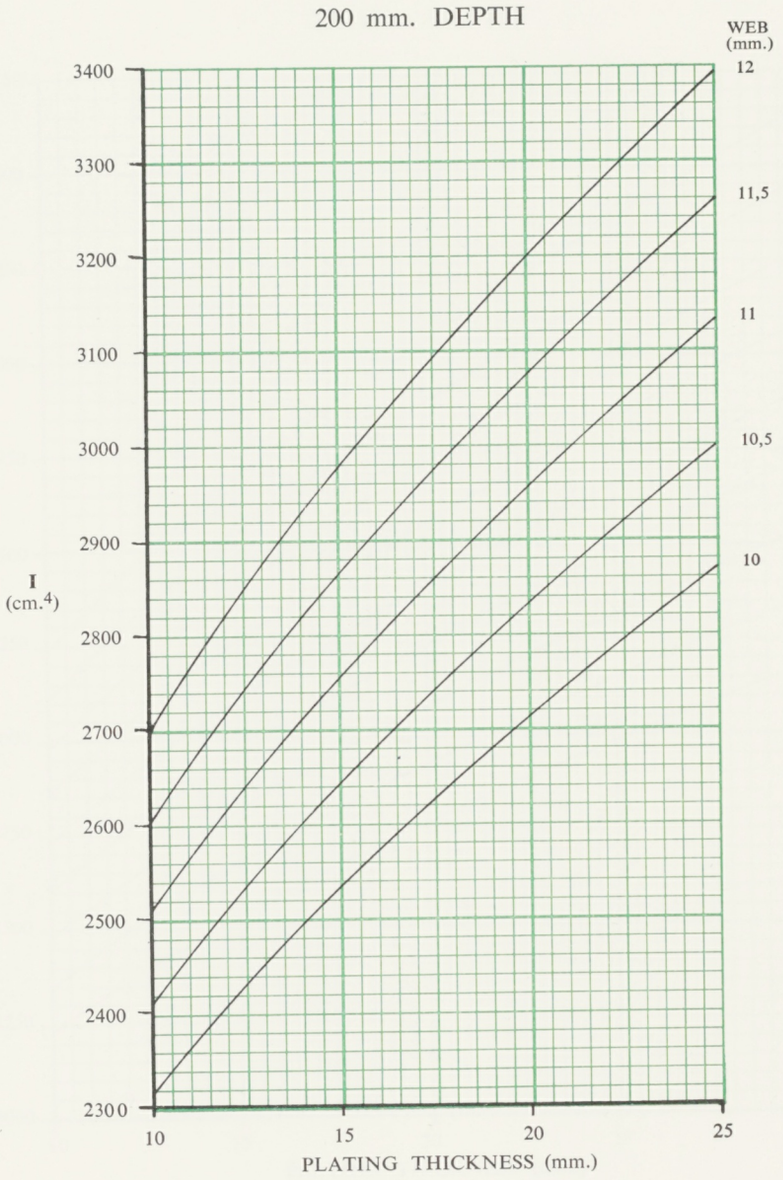

MOMENT OF INERTIA OF ORDINARY ANGLES

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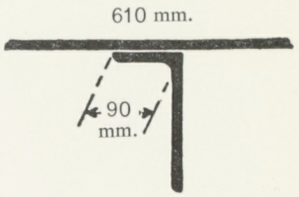
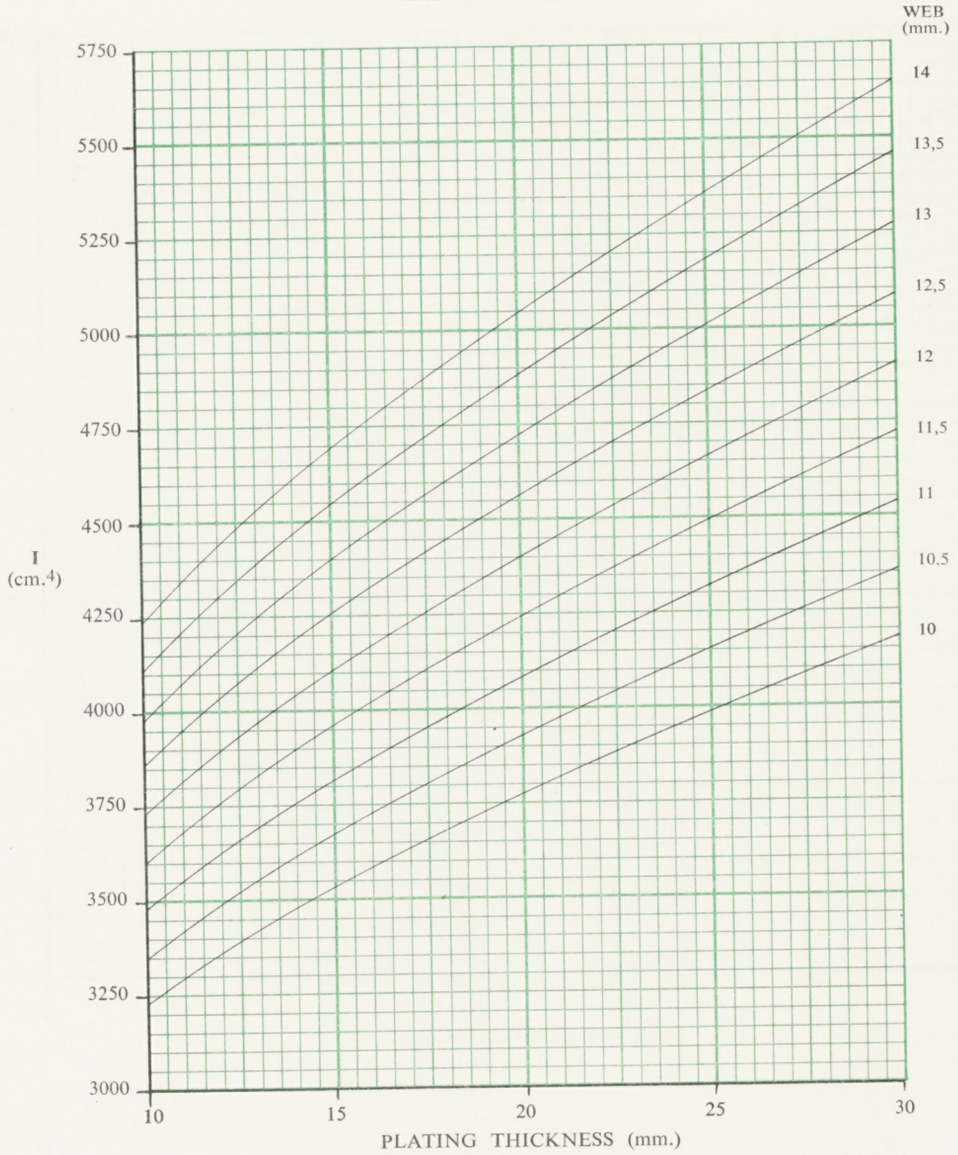
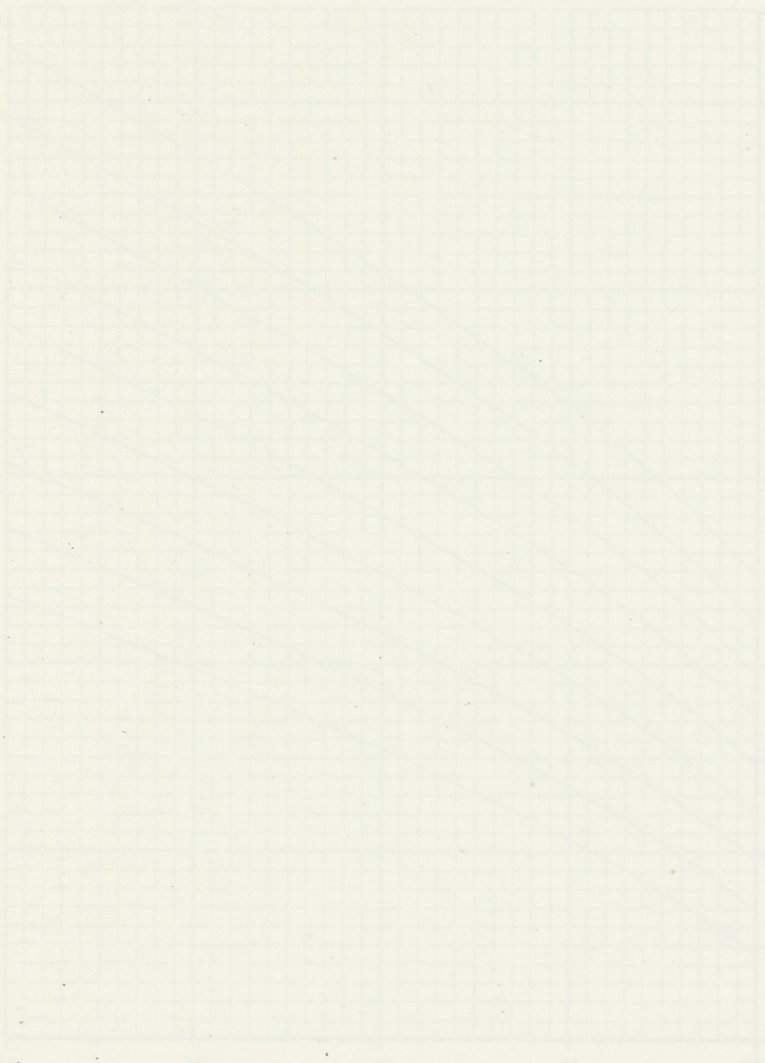


90 mm. FLANGE

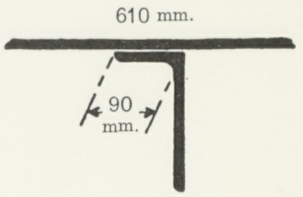
225 mm. DEPTH





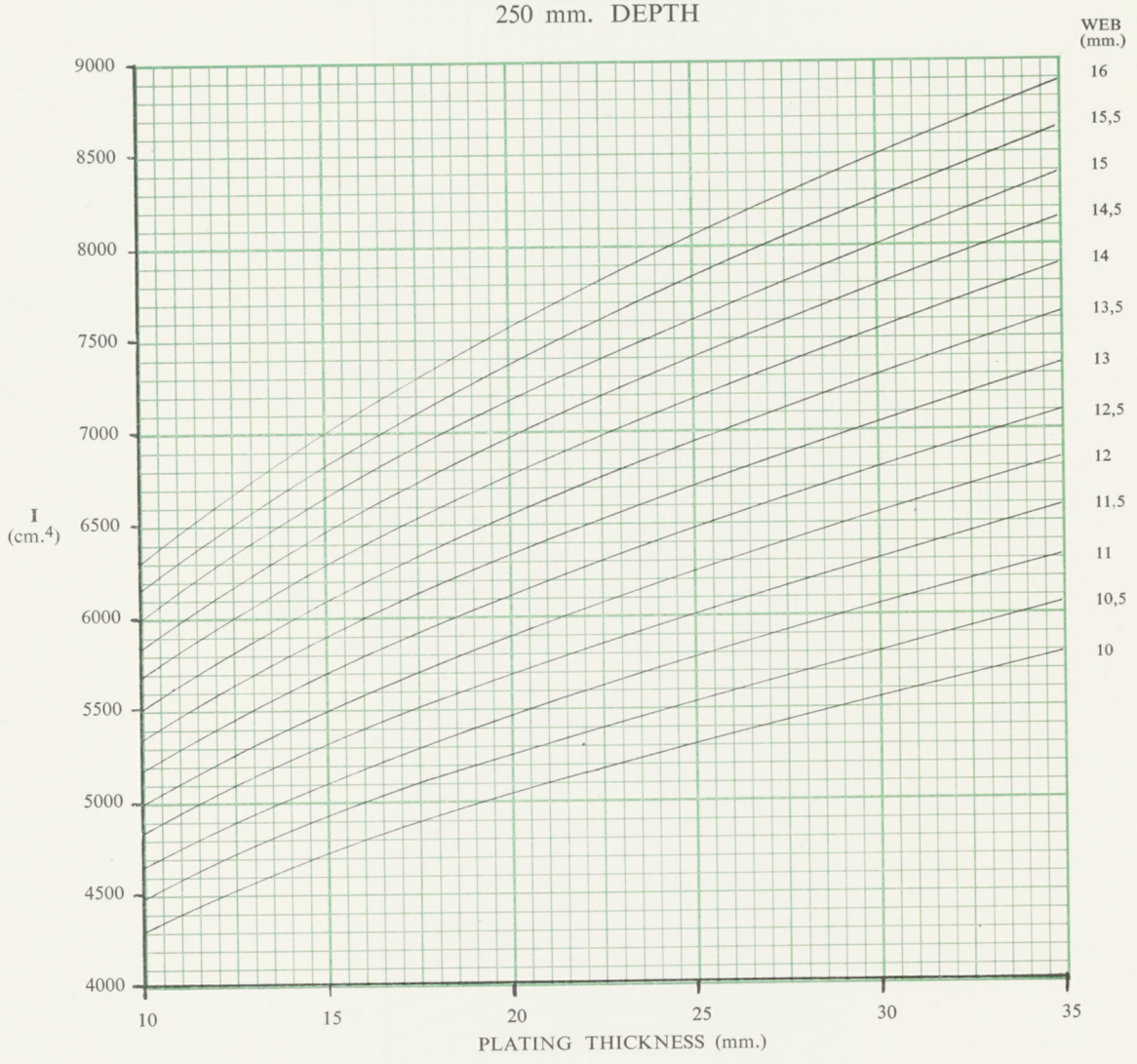
MOMENT OF INERTIA OF ORDINARY ANGLES

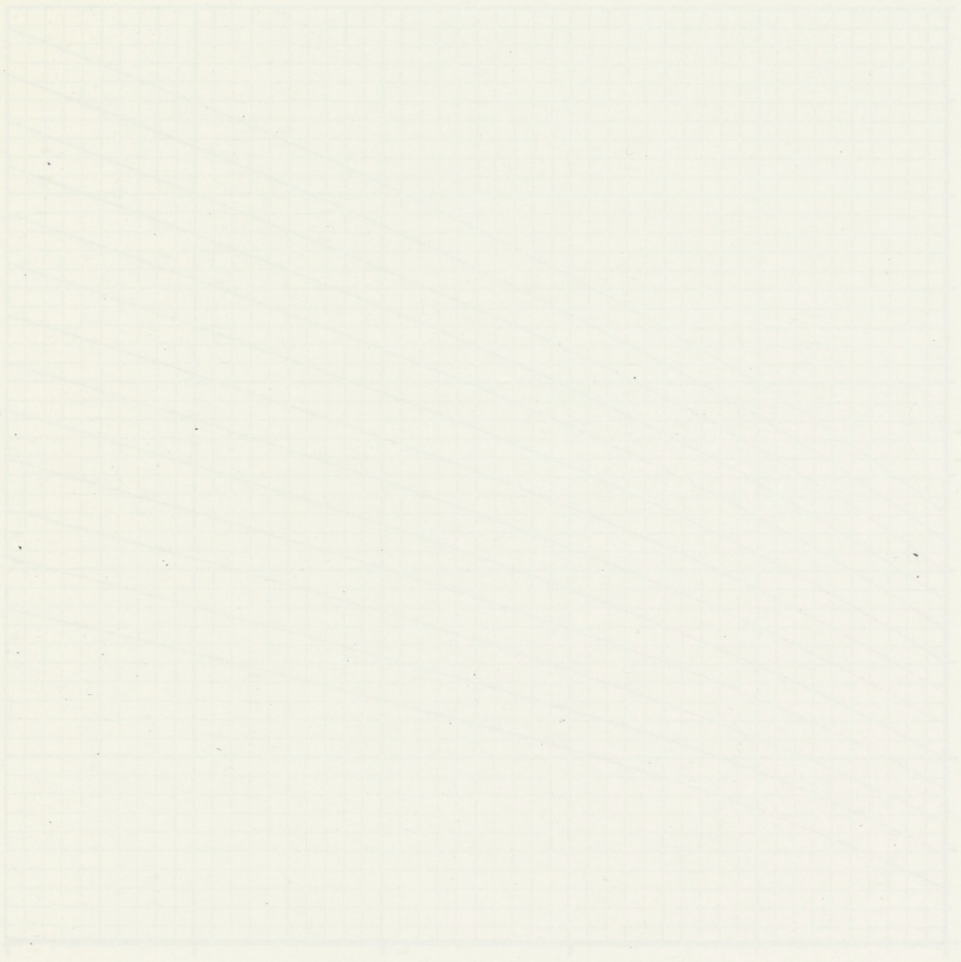
(WITH PLATING)



90 mm. FLANGE

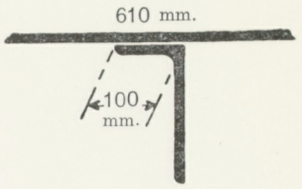
250 mm. DEPTH



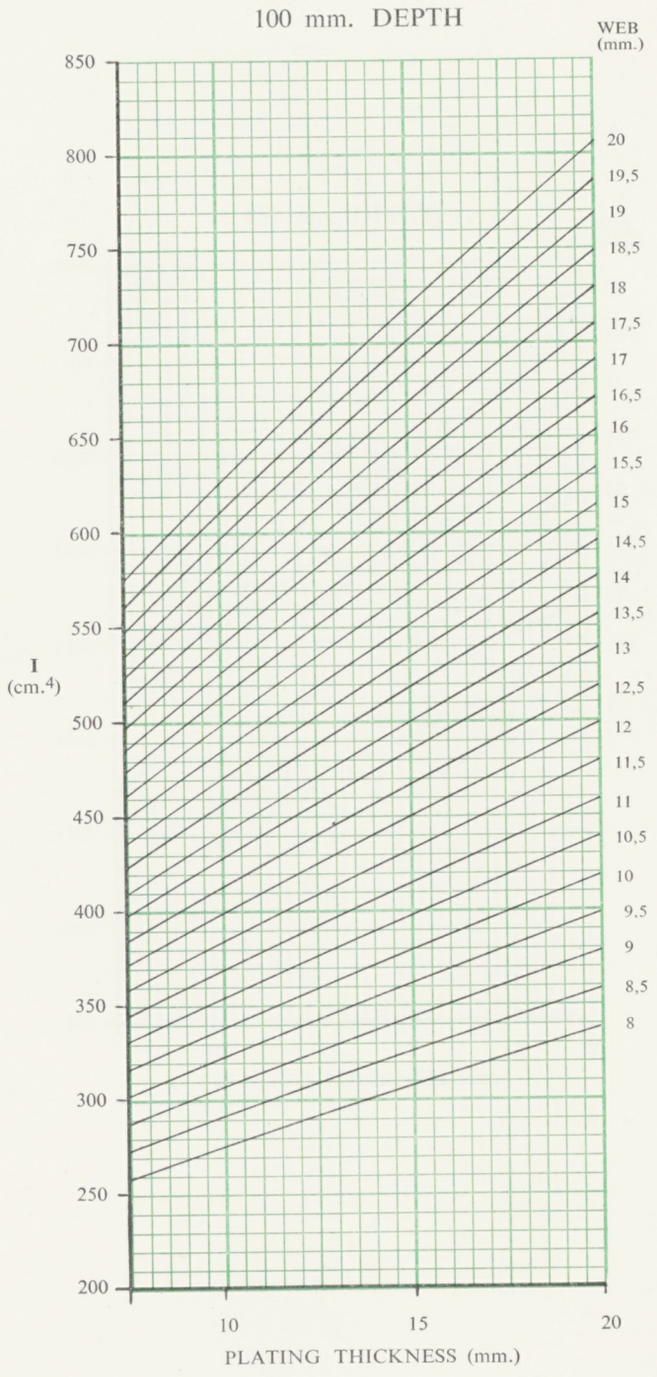


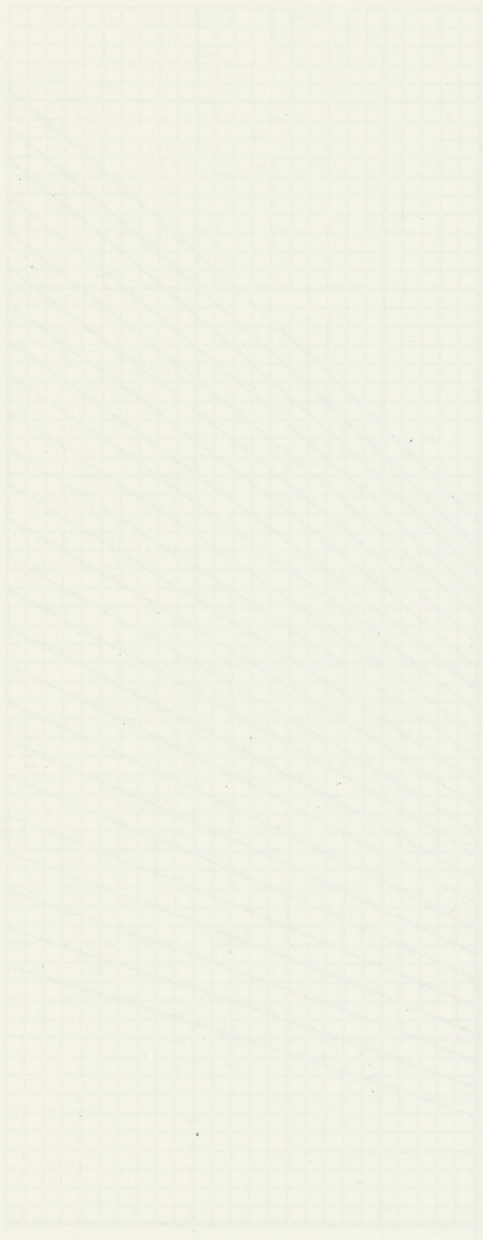
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)



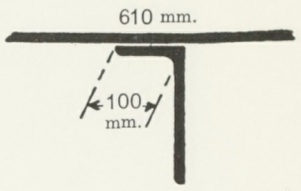
100 mm. FLANGE



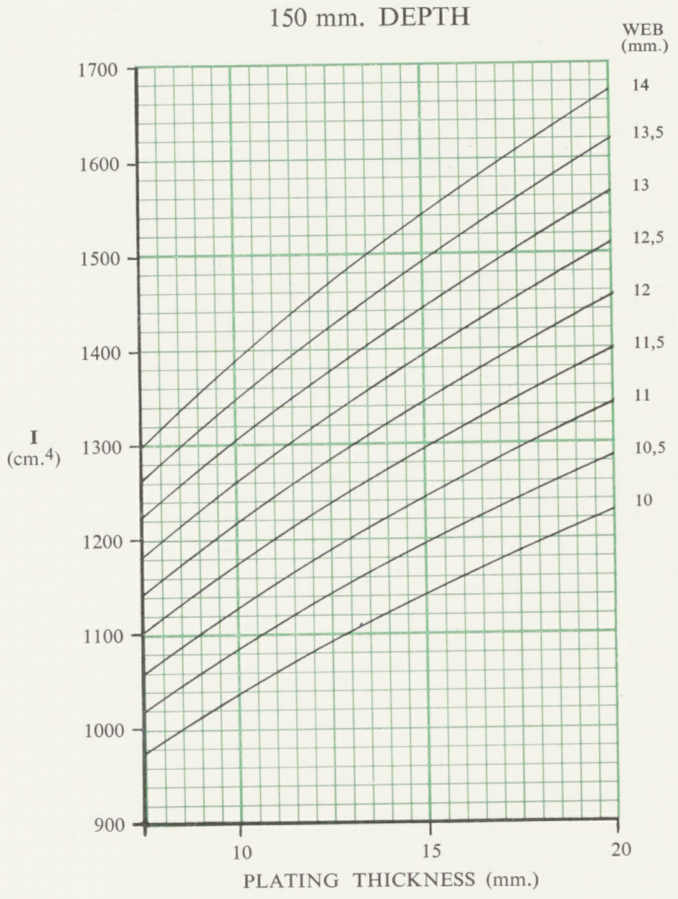


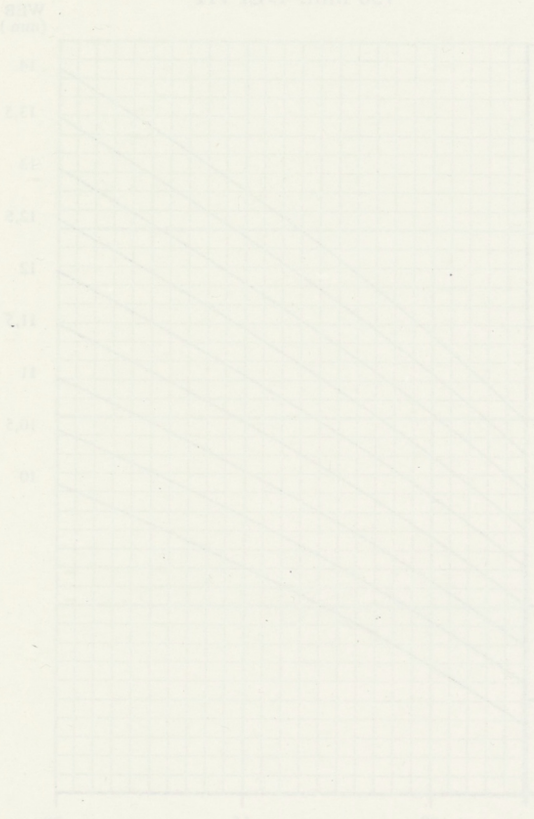
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)



100 mm. FLANGE





MOMENT OF INERTIA OF ORDINARY ANGLES

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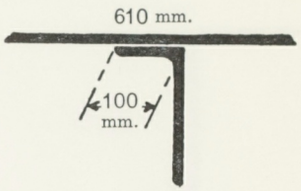
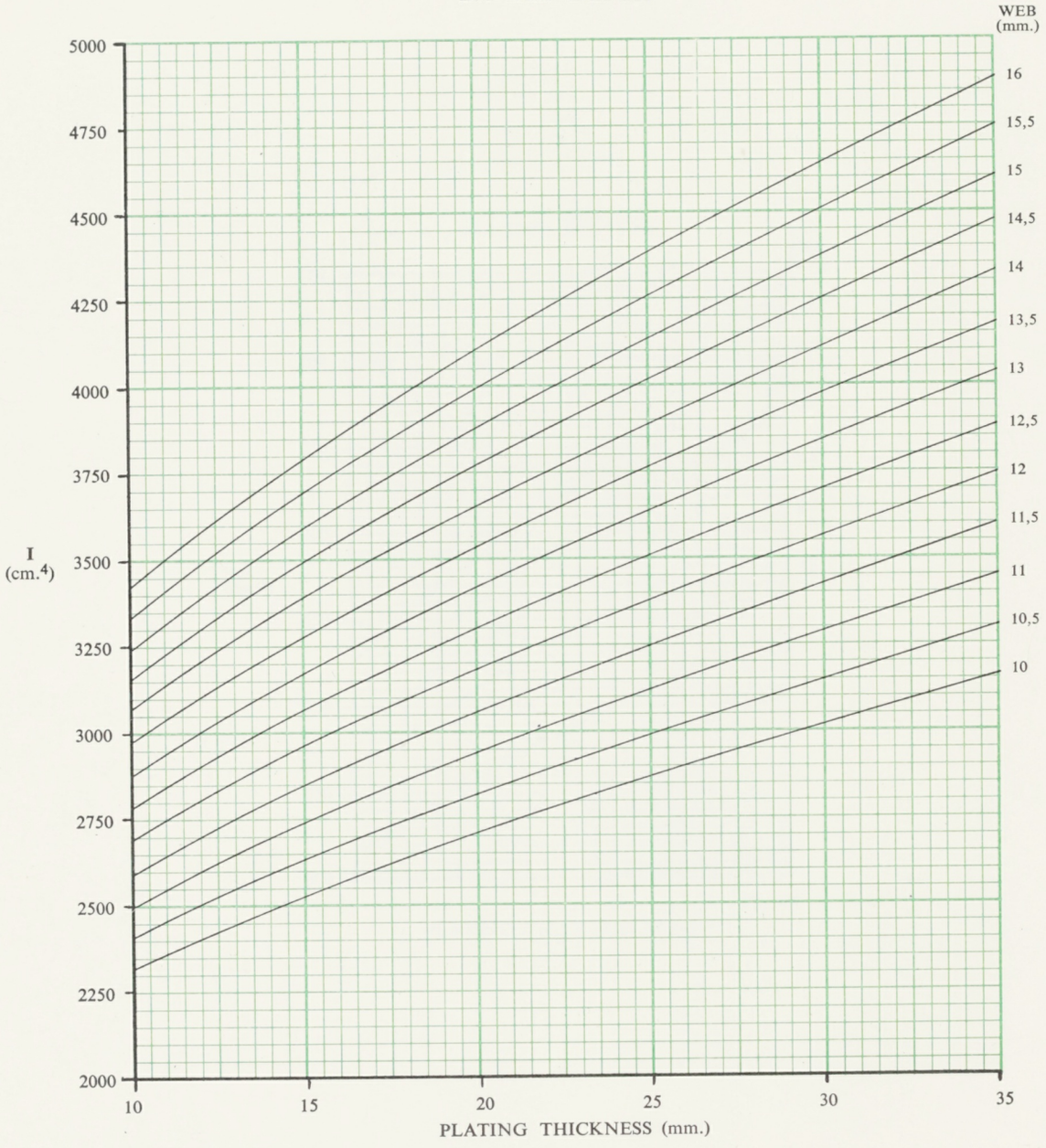


100 mm. FLANGE

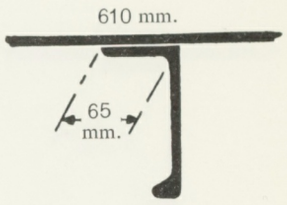
200 mm. DEPTH



S

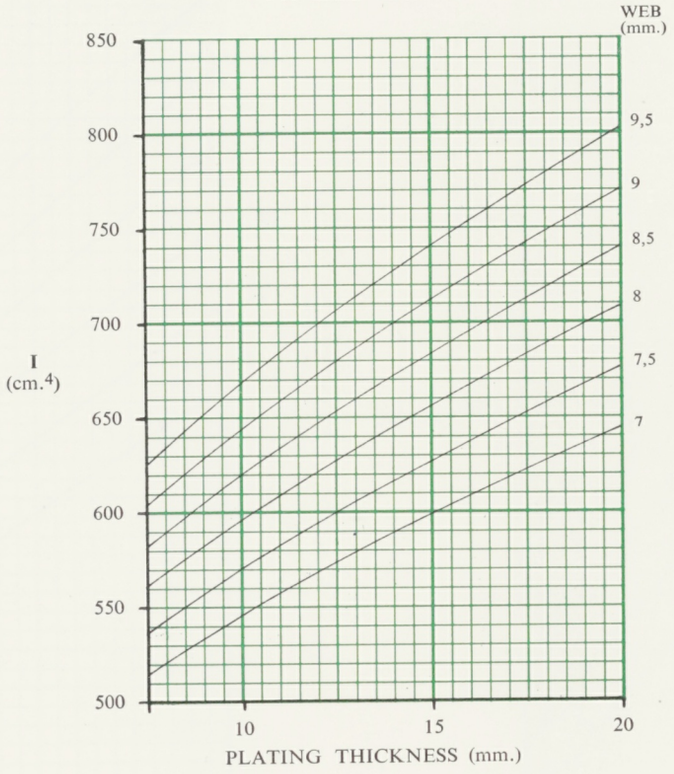
MOMENT OF INERTIA OF BULB ANGLES

(WITH PLATING)



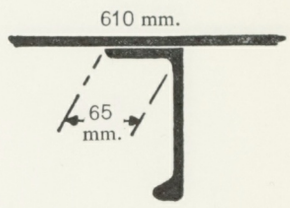
65 mm. FLANGE

115 mm. DEPTH



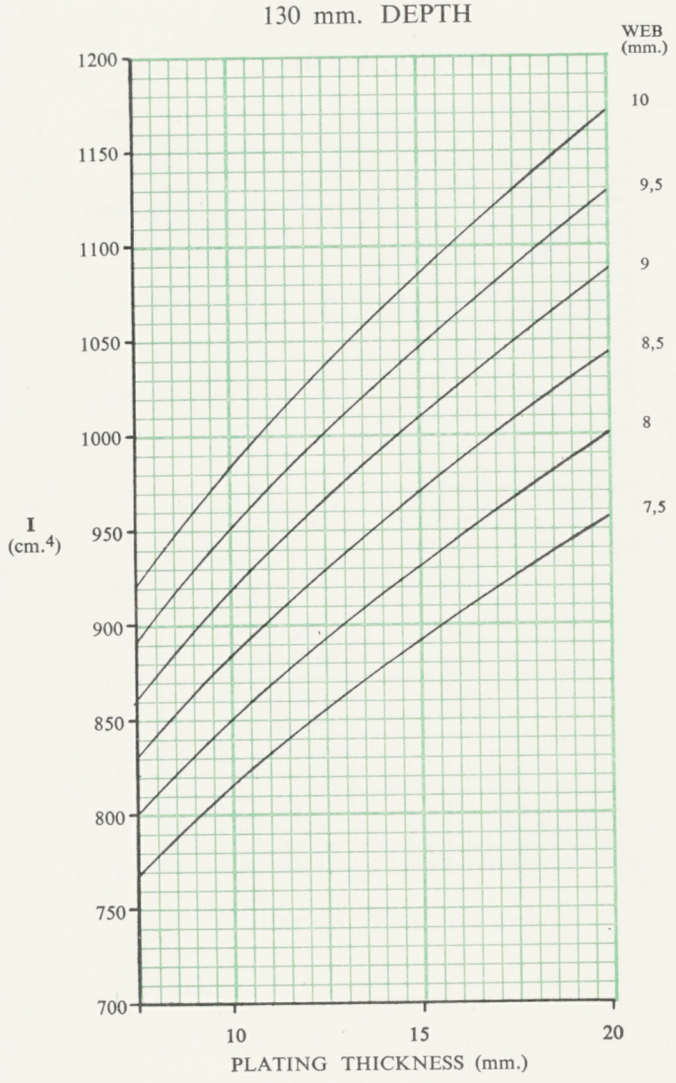
MOMENT OF INERTIA OF BULB ANGLES

(WITH PLATING)

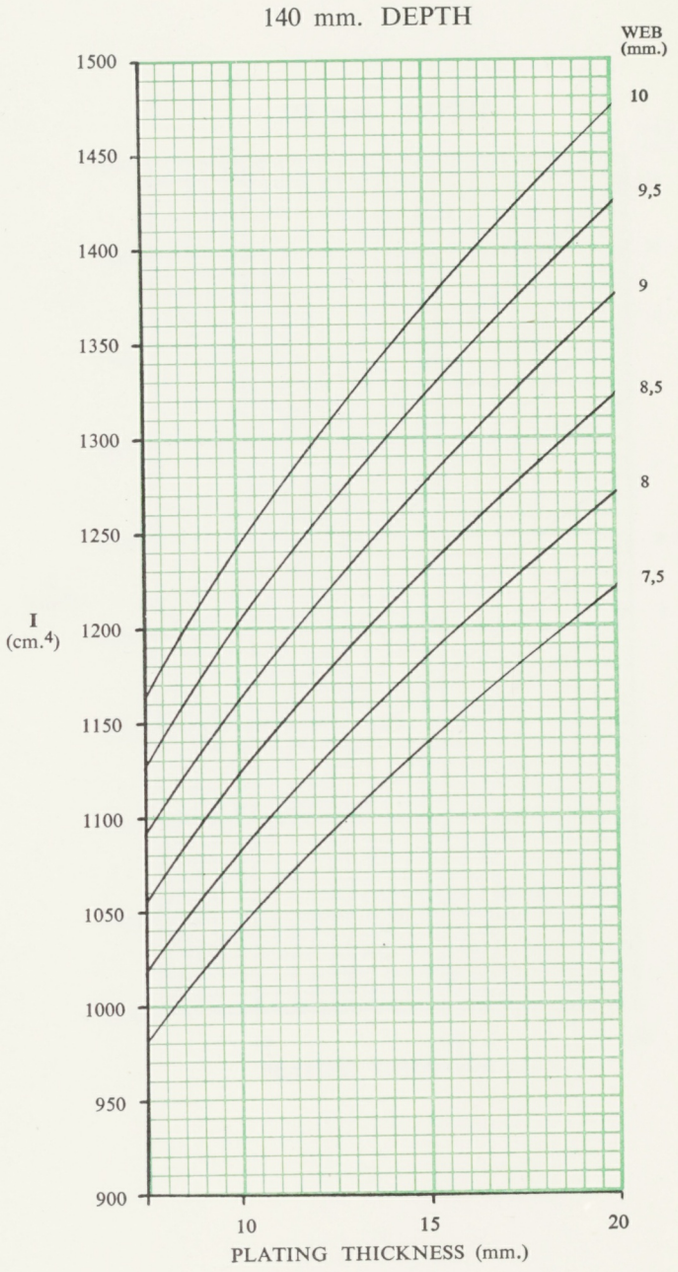


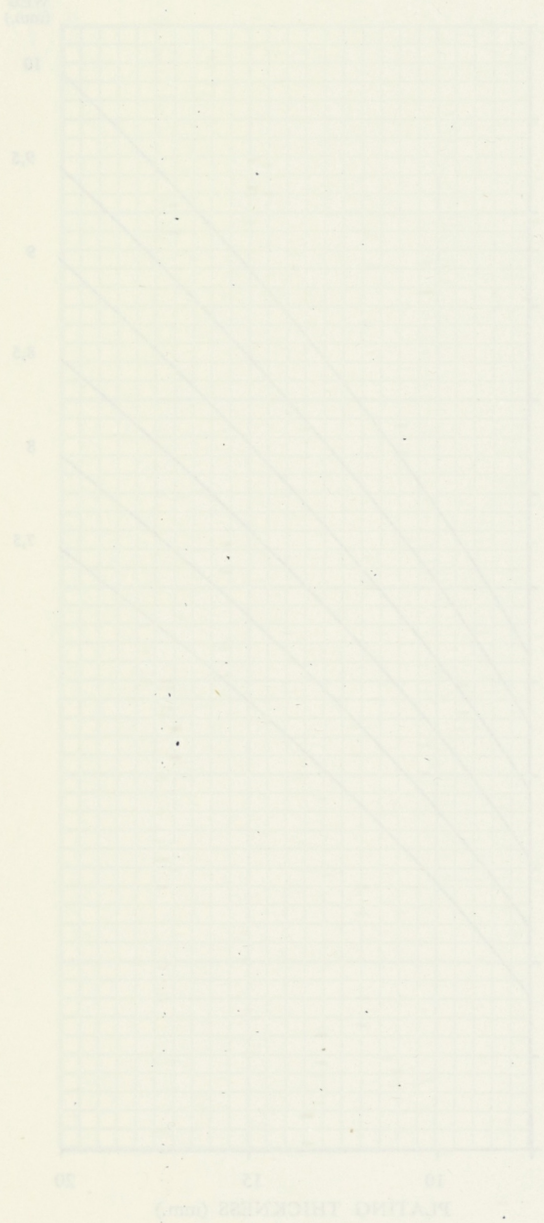
65 mm. FLANGE

130 mm. DEPTH



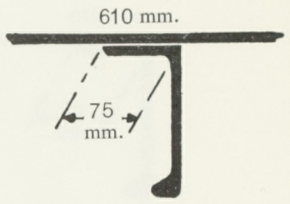
140 mm. DEPTH





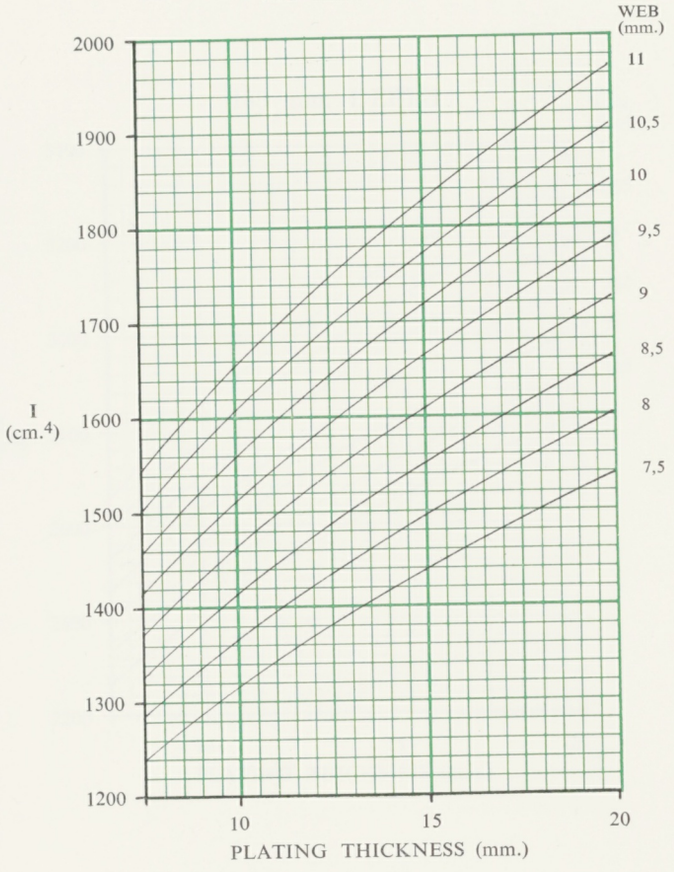
MOMENT OF INERTIA OF BULB ANGLES

(WITH PLATING)

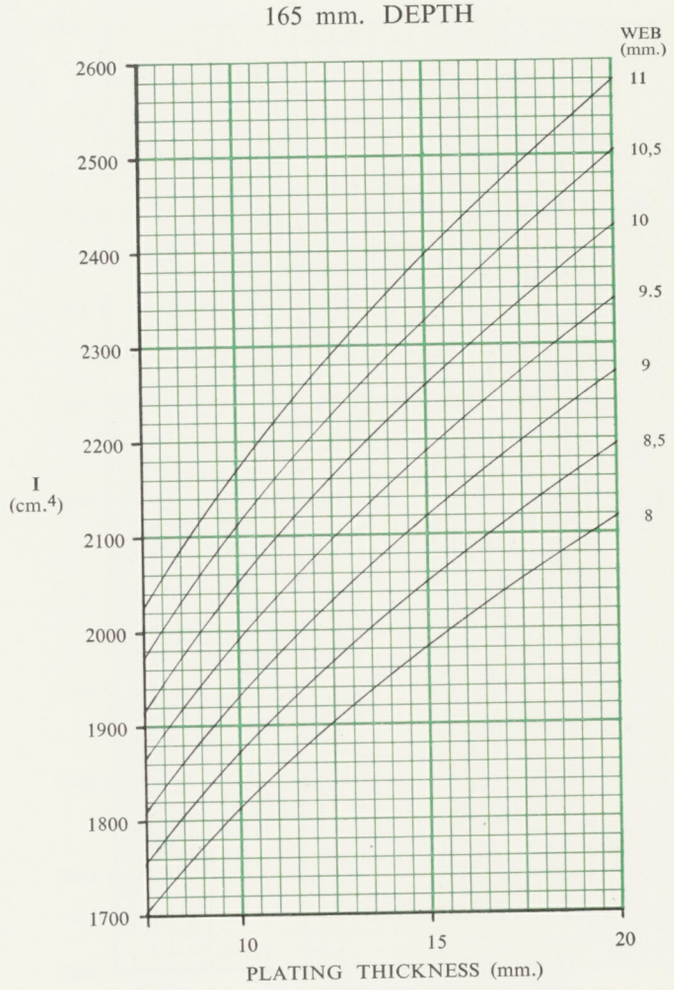


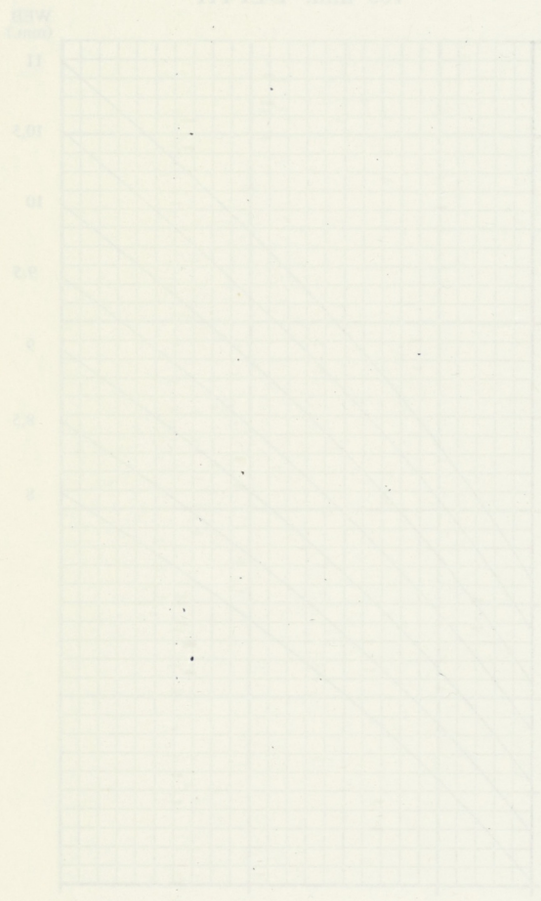
75 mm. FLANGE

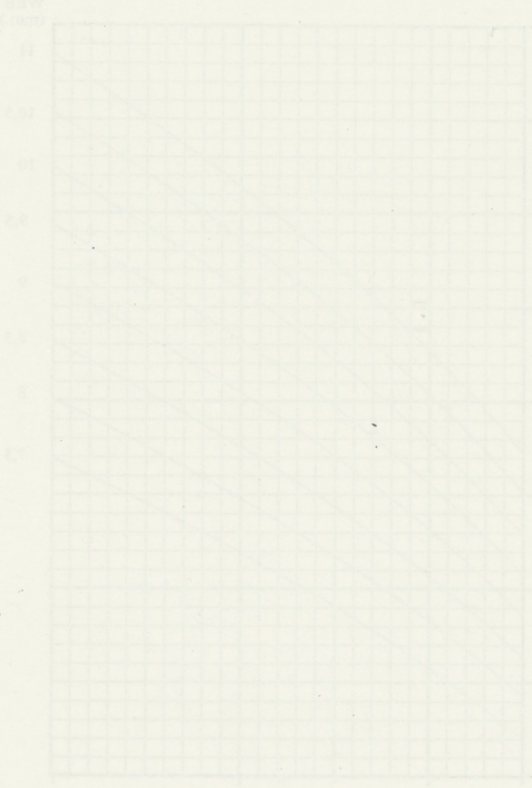
150 mm. DEPTH



165 mm. DEPTH

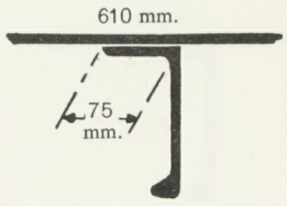






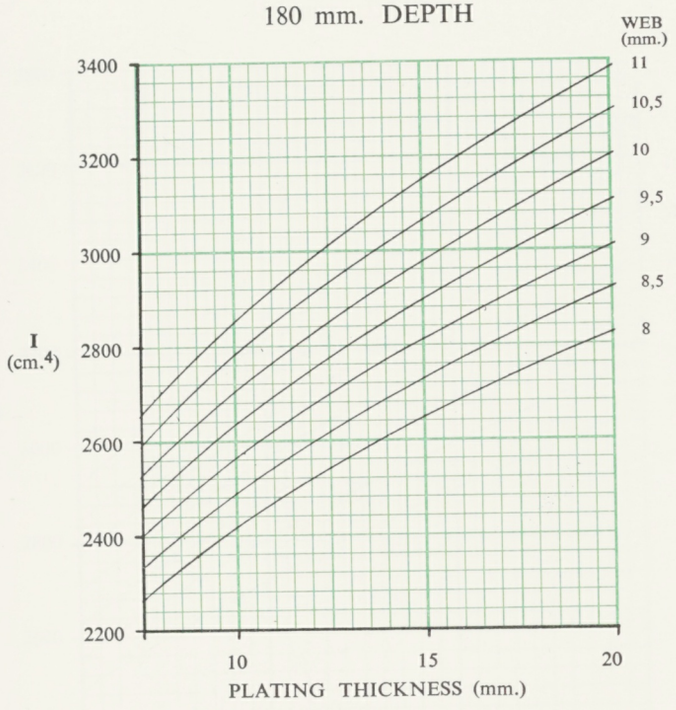
MOMENT OF INERTIA OF BULB ANGLES

(WITH PLATING)

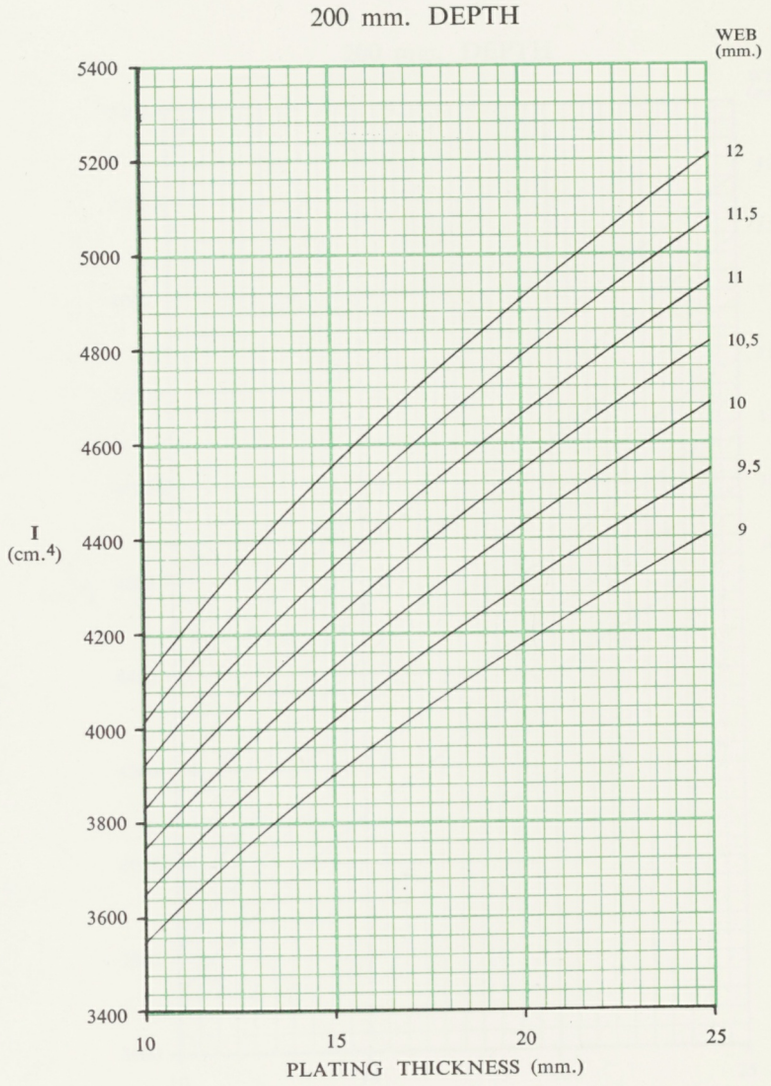


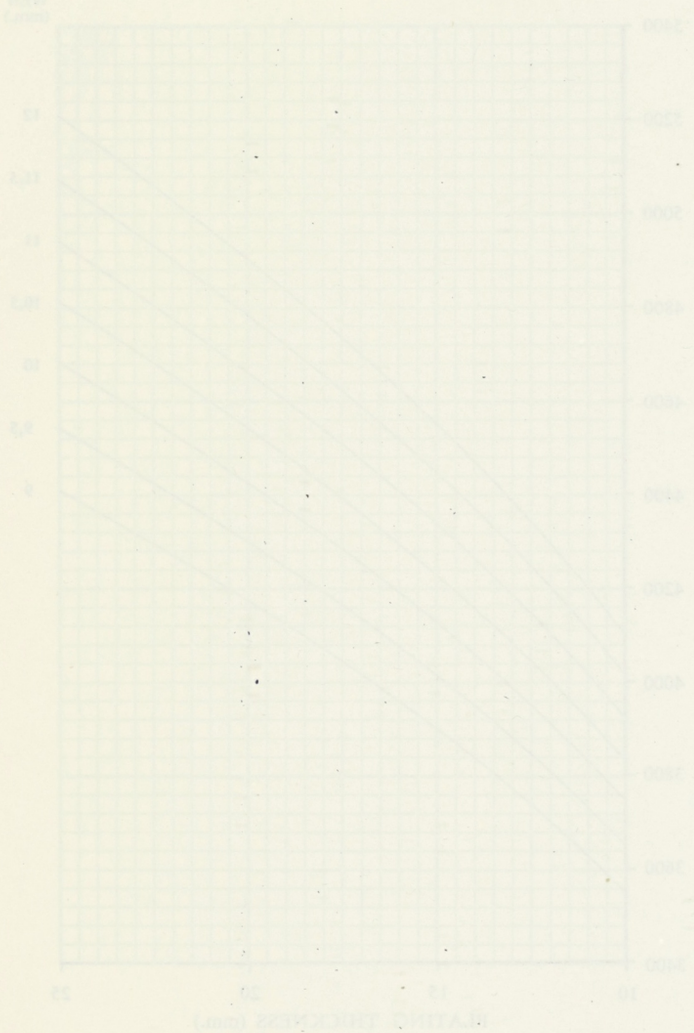
75 mm. FLANGE

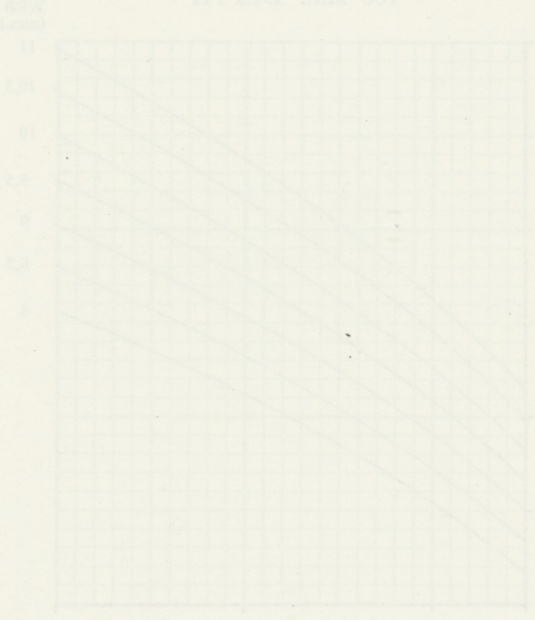
180 mm. DEPTH



200 mm. DEPTH

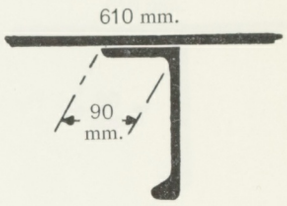






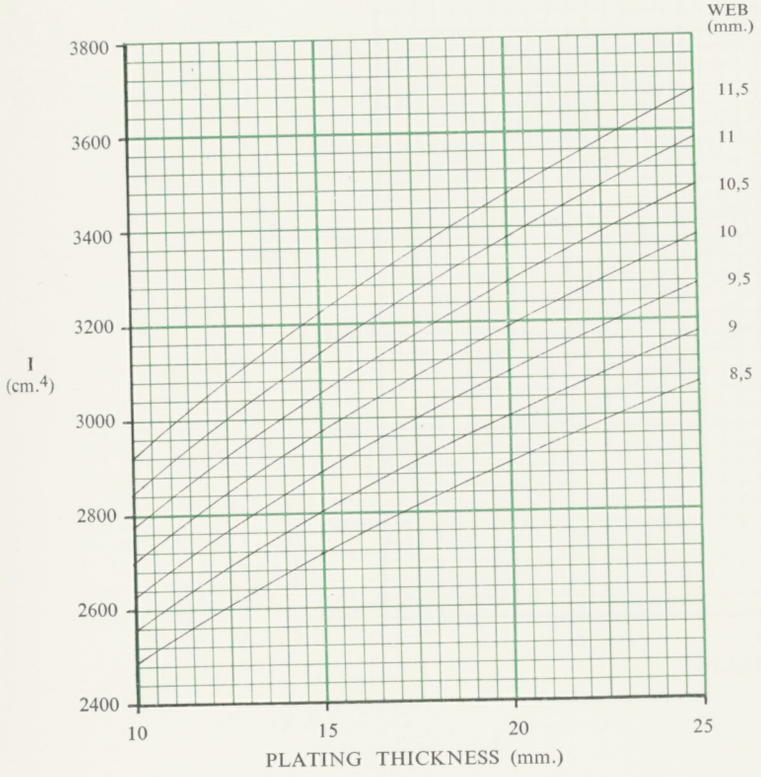
MOMENT OF INERTIA OF BULB ANGLES

(WITH PLATING)

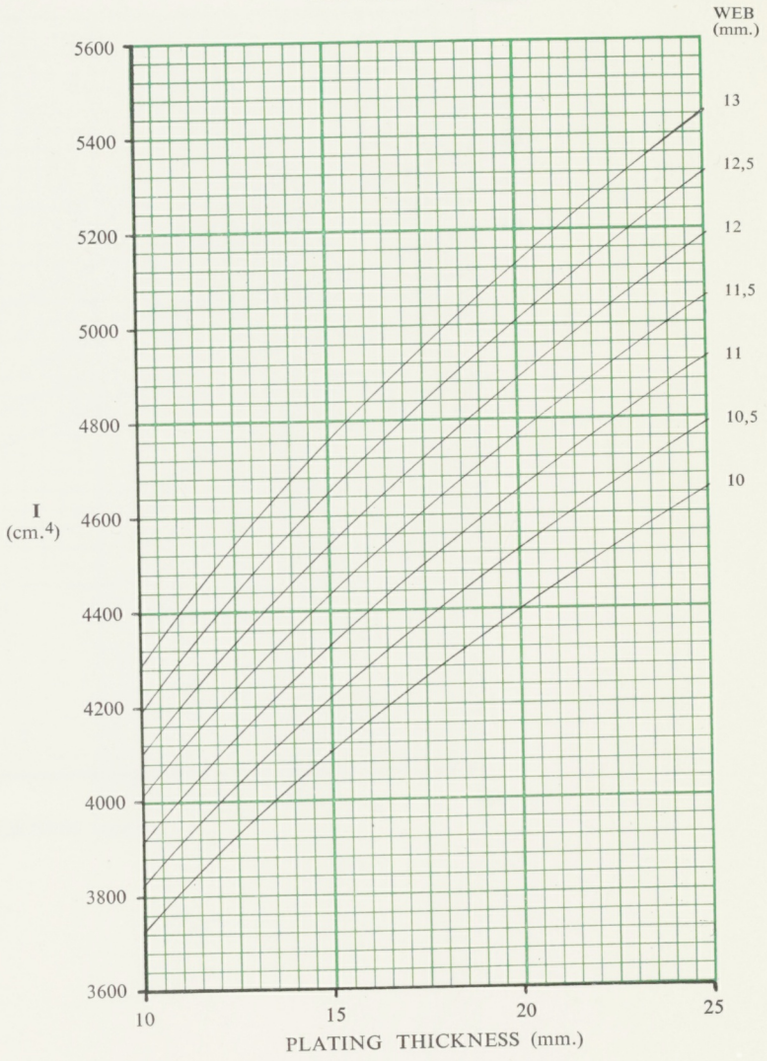


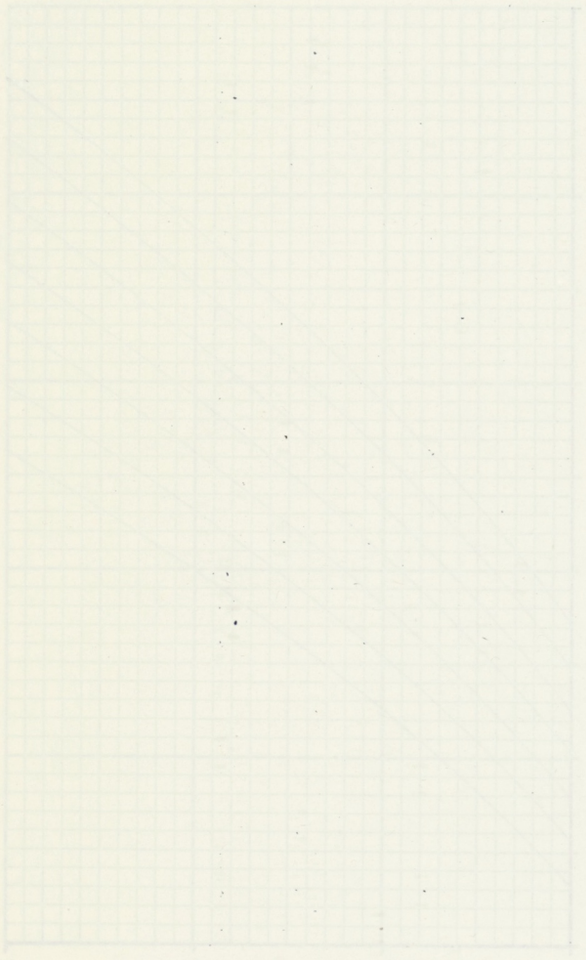
90 mm. FLANGE

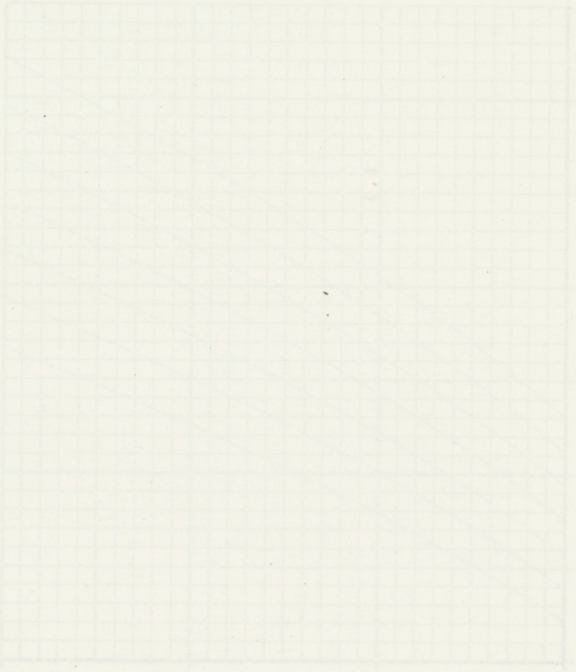
180 mm. DEPTH



200 mm. DEPTH

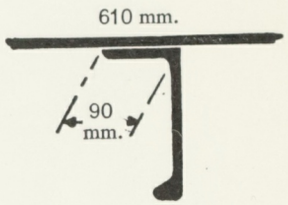






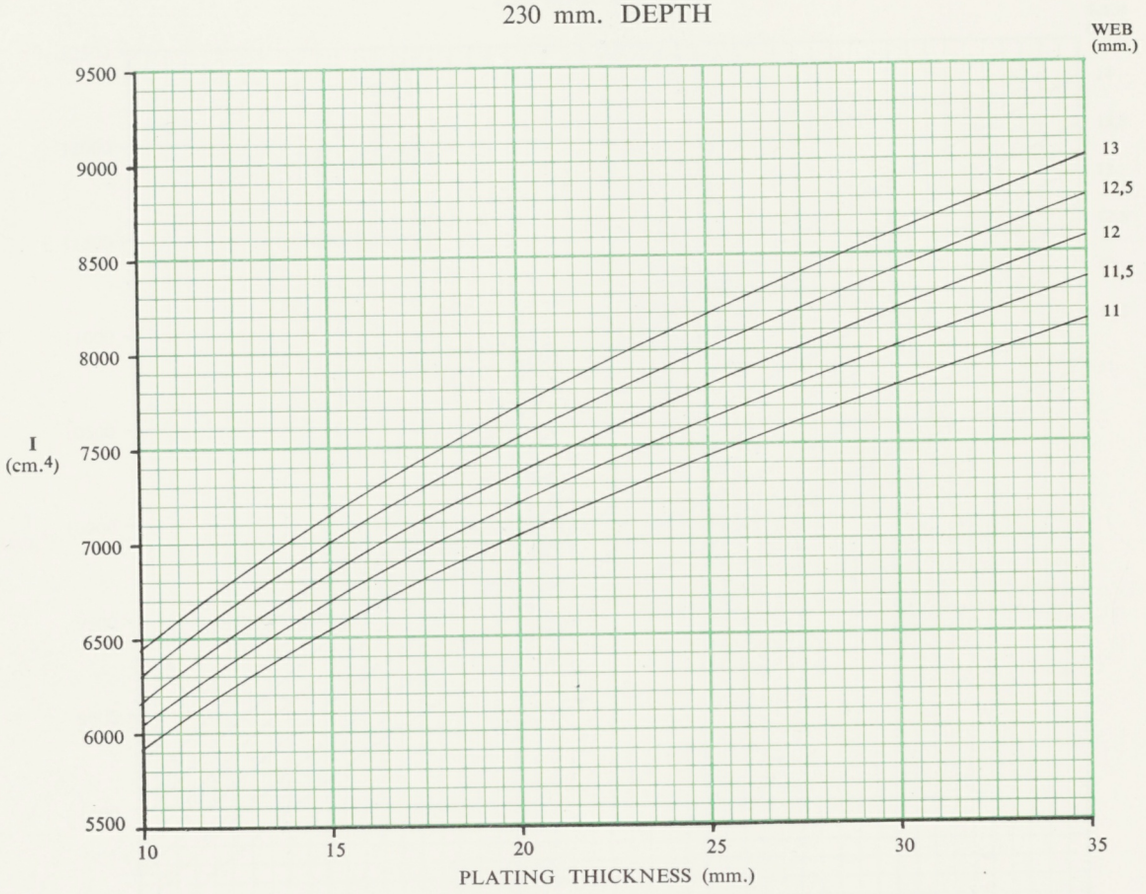
MOMENT OF INERTIA OF BULB ANGLES

(WITH PLATING)



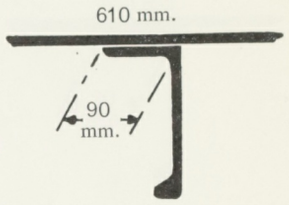
90 mm. FLANGE

230 mm. DEPTH



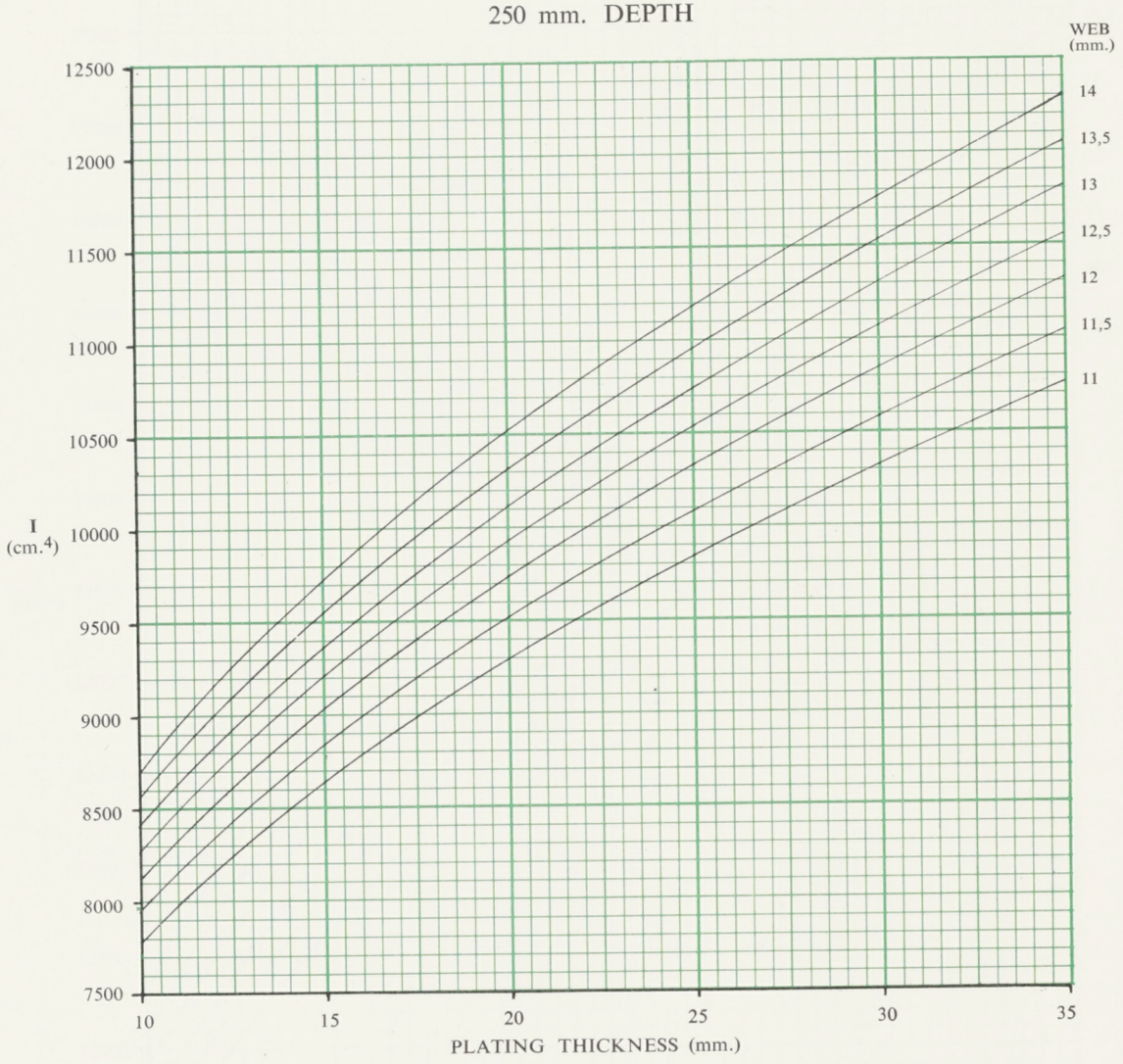
MOMENT OF INERTIA OF BULB ANGLES

(WITH PLATING)



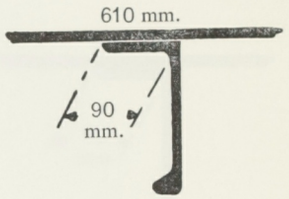
90 mm. FLANGE

250 mm. DEPTH



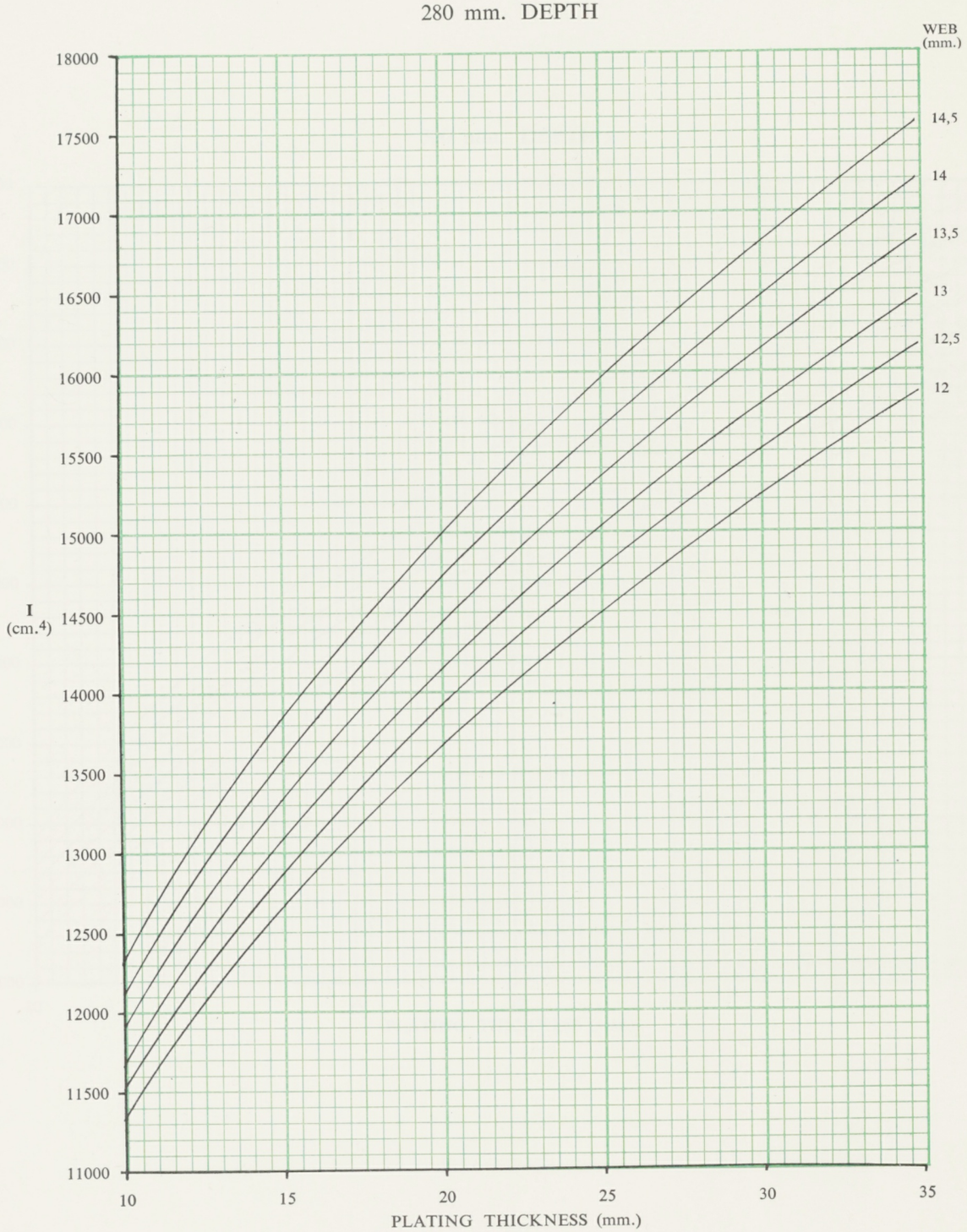
MOMENT OF INERTIA OF BULB ANGLES

(WITH PLATING)



90 mm. FLANGE

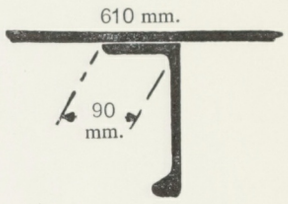
280 mm. DEPTH



T

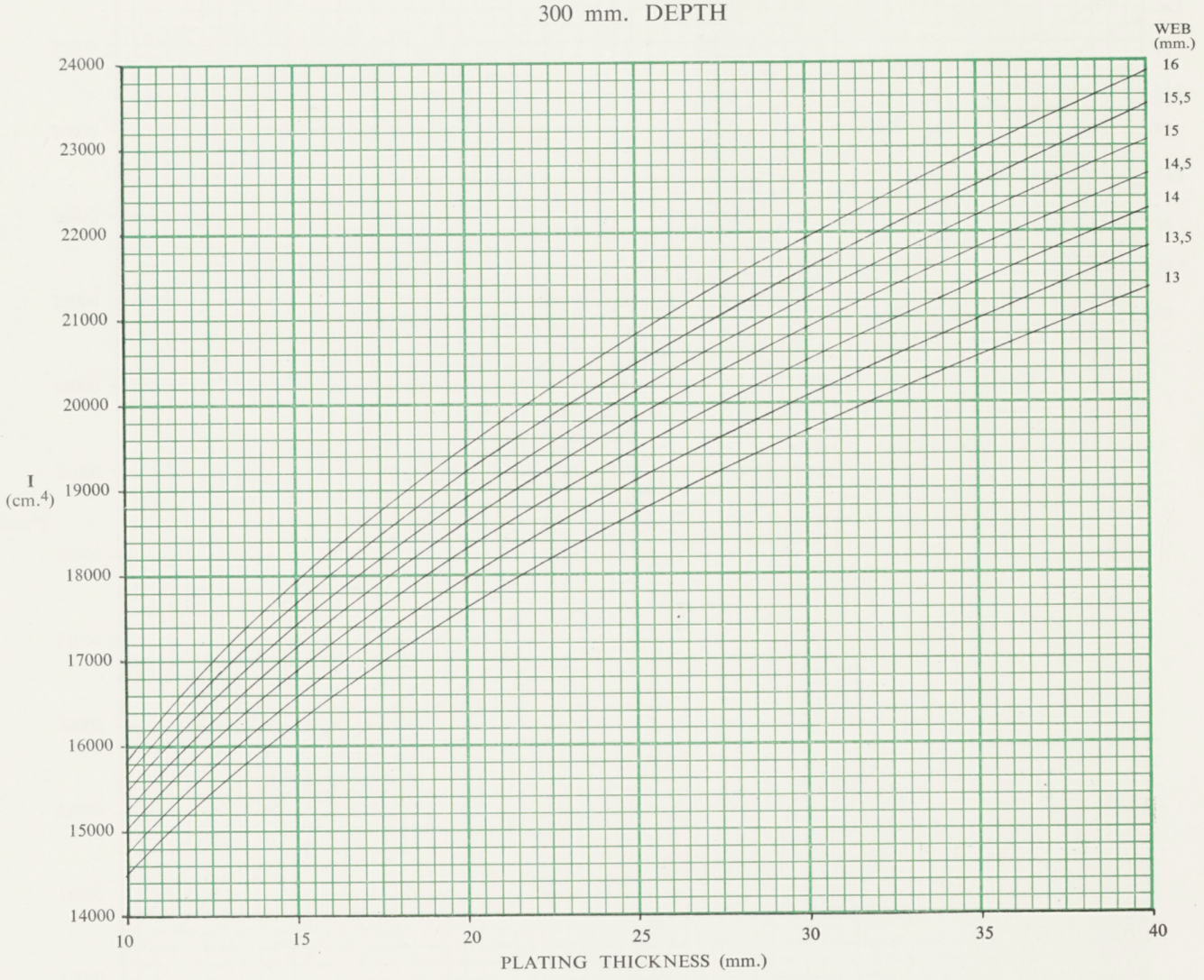
MOMENT OF INERTIA OF BULB ANGLES

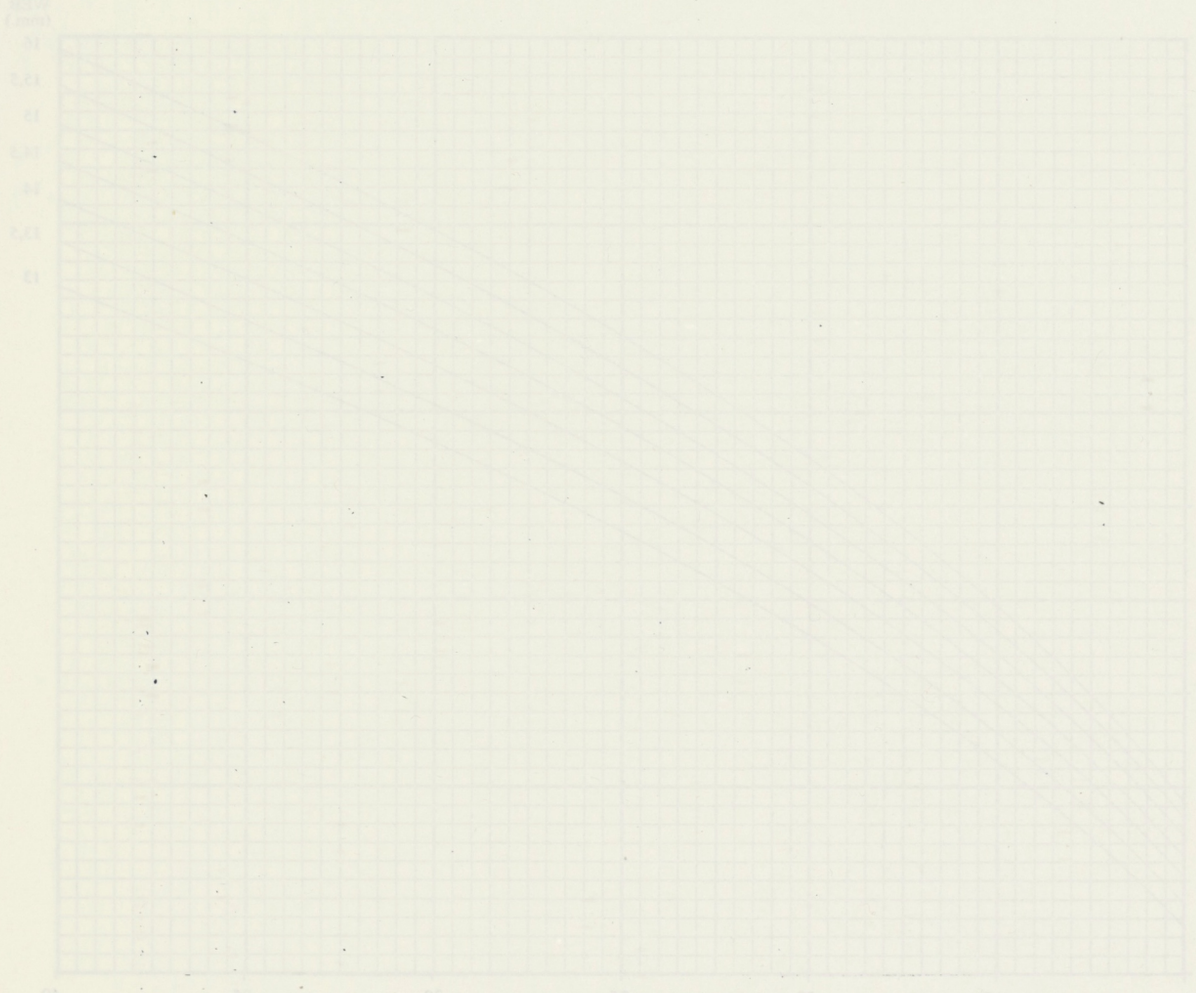
(WITH PLATING)



90 mm. FLANGE

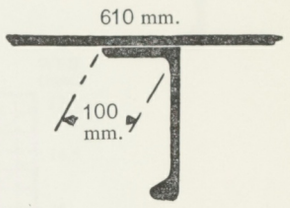
300 mm. DEPTH





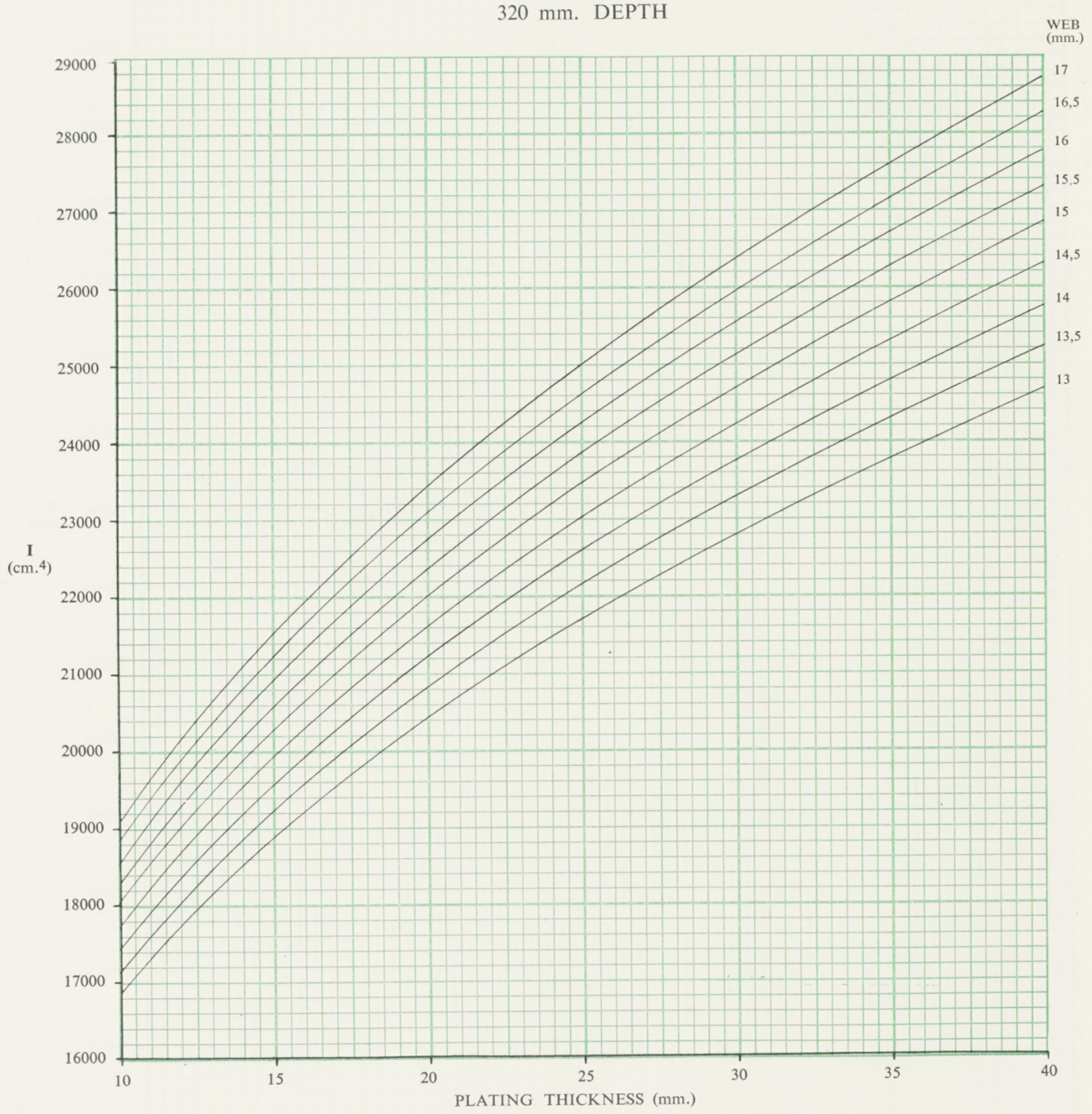
MOMENT OF INERTIA OF BULB ANGLES

(WITH PLATING)



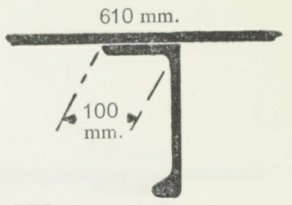
100 mm. FLANGE

320 mm. DEPTH



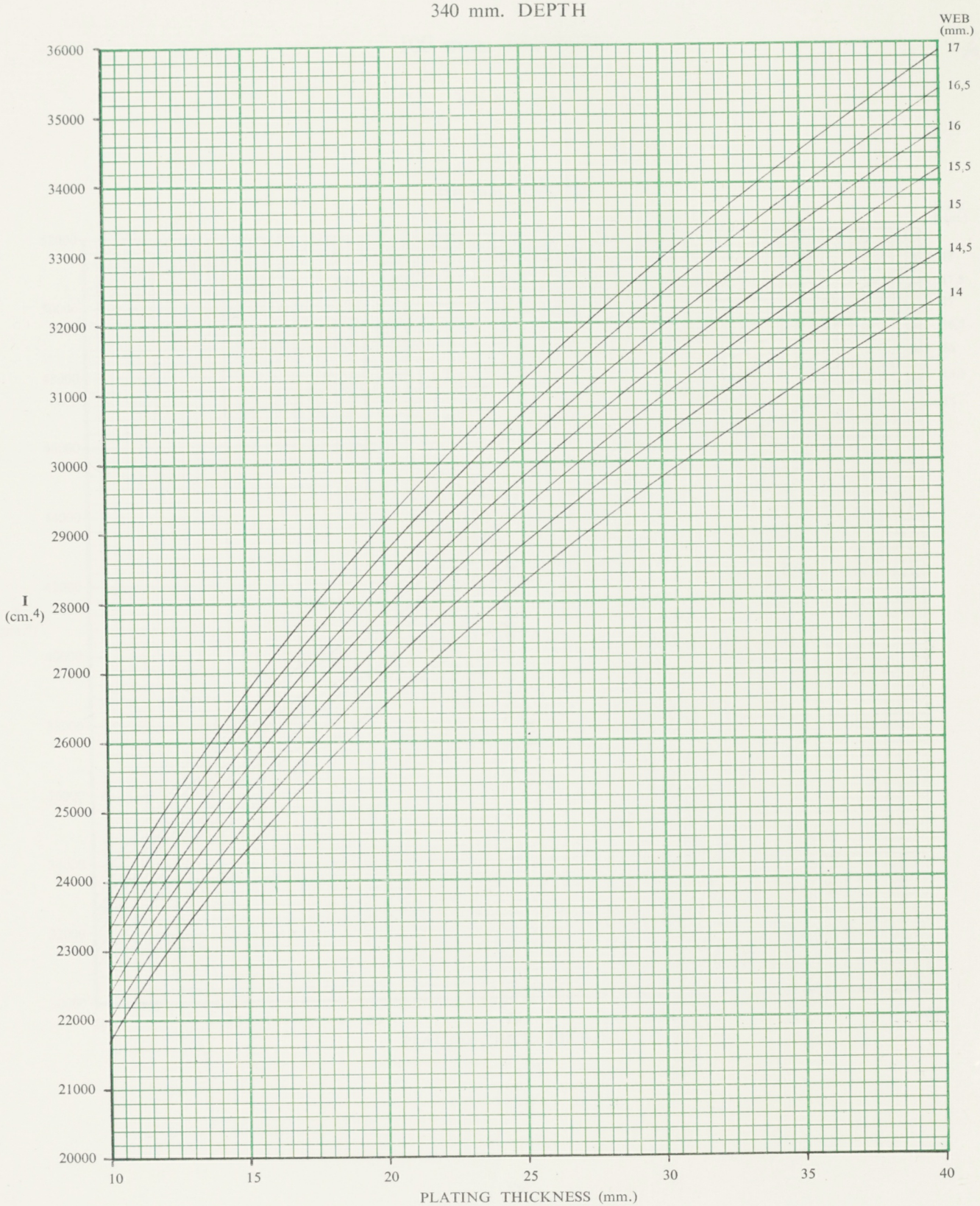
MOMENT OF INERTIA OF BULB ANGLES

(WITH PLATING)



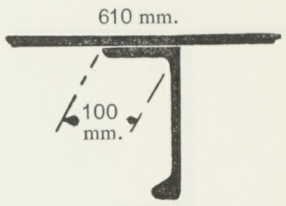
100 mm. FLANGE

340 mm. DEPTH



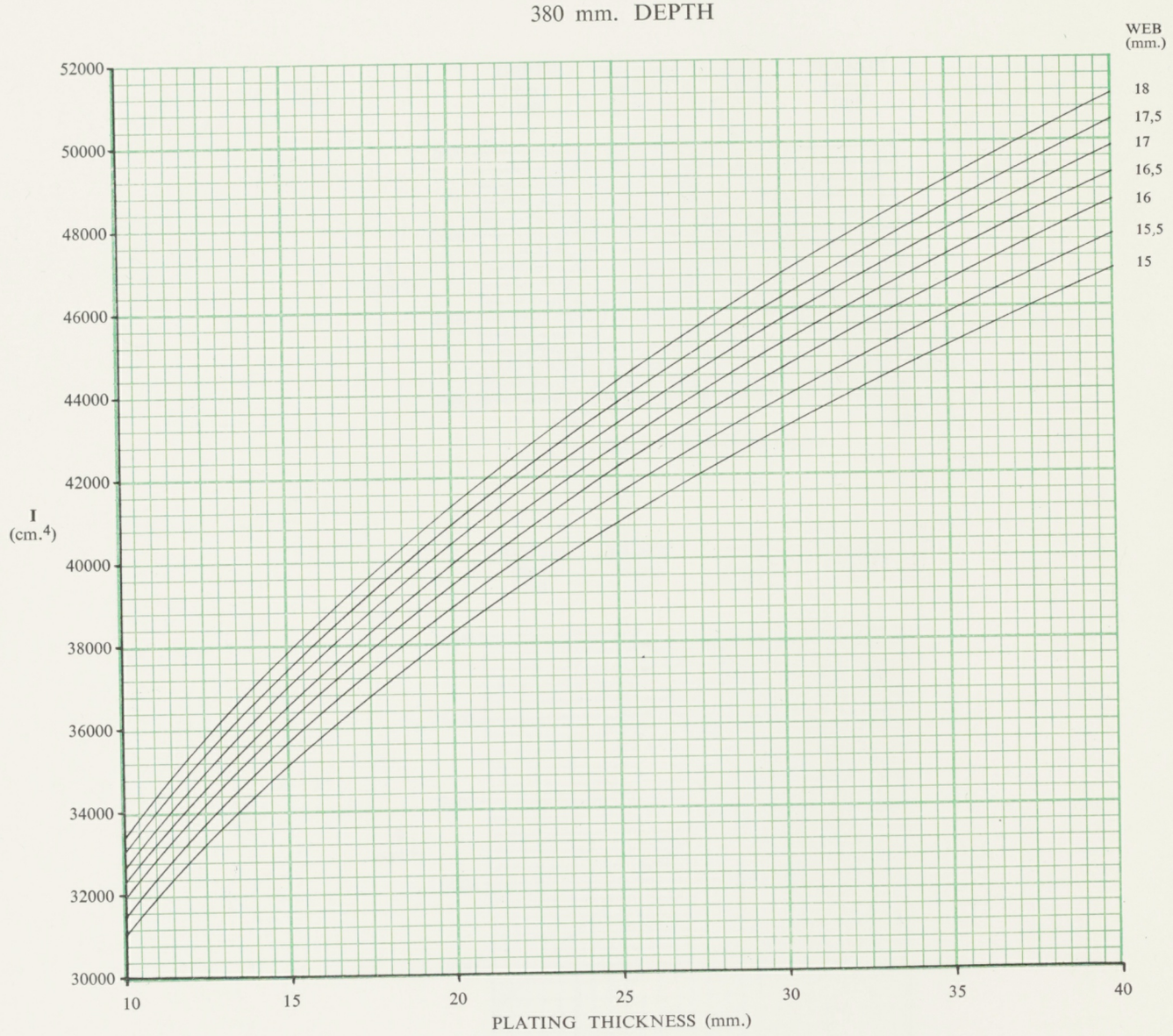
MOMENT OF INERTIA OF BULB ANGLES

(WITH PLATING)

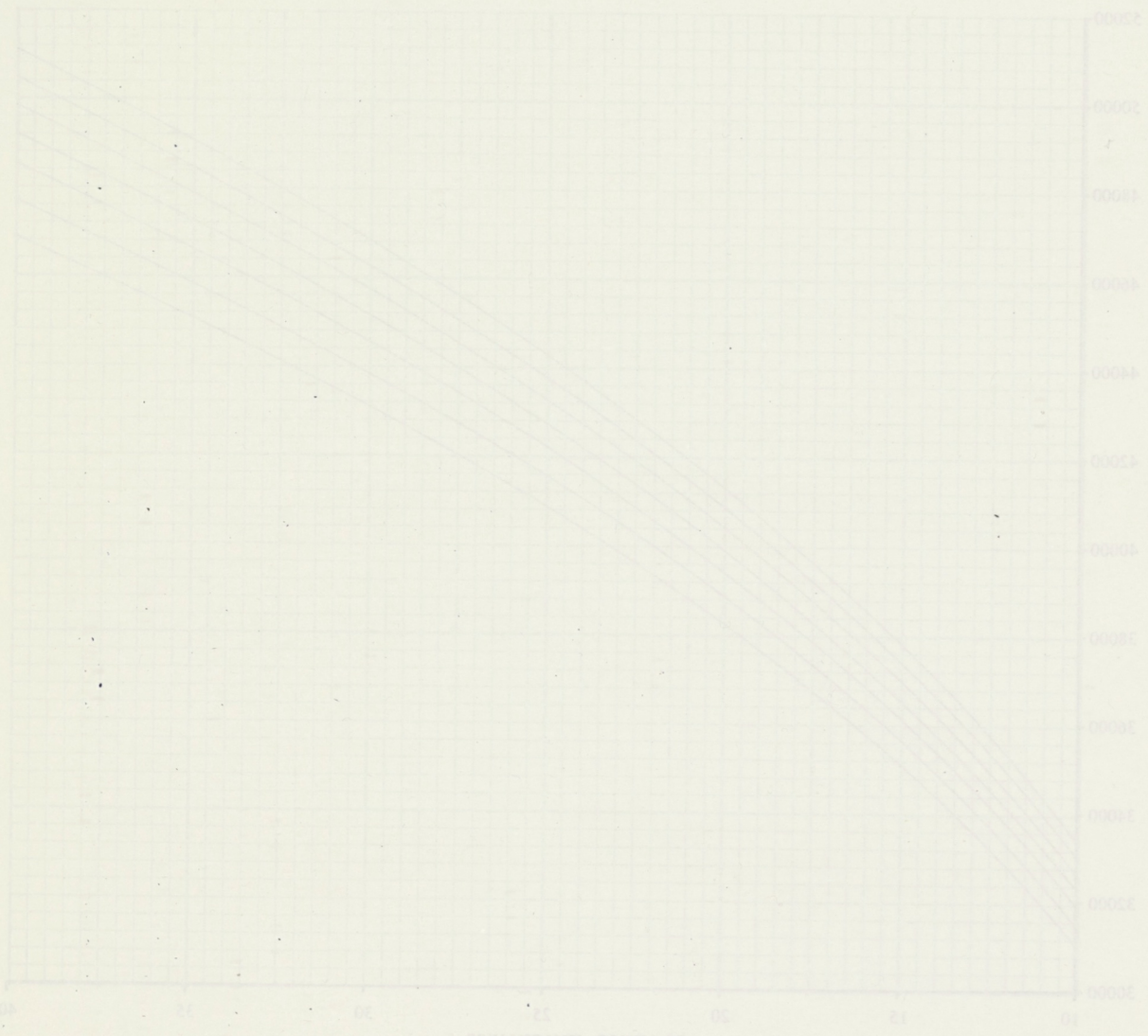


100 mm. FLANGE

380 mm. DEPTH

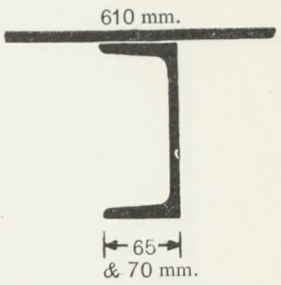


610 mm.
100 mm.

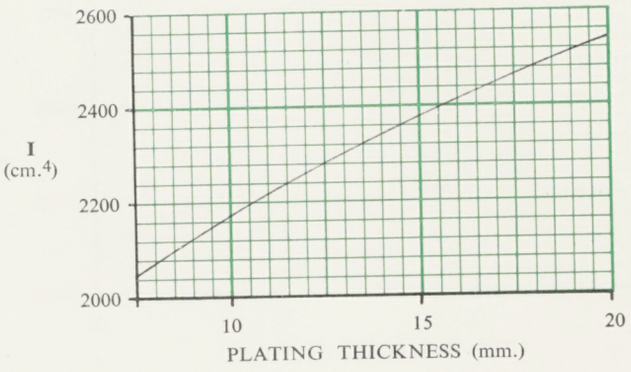


MOMENT OF INERTIA OF CHANNELS

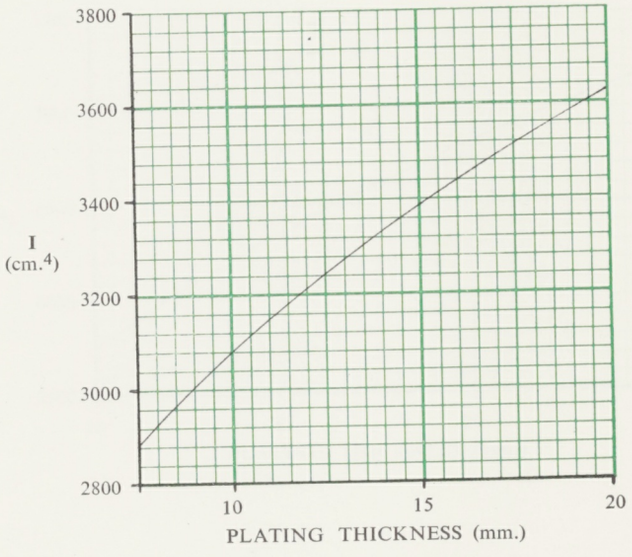
(WITH PLATING)

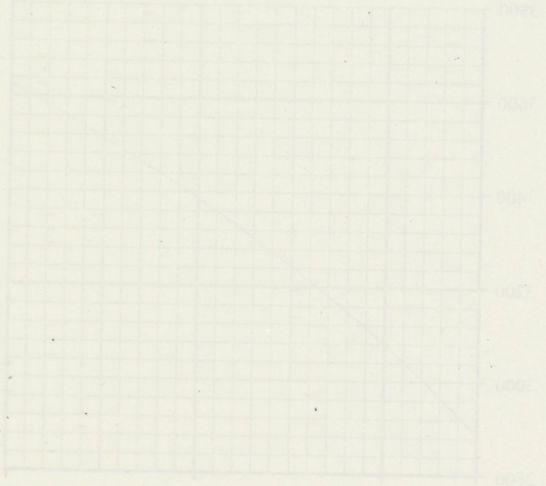


DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)
160	65	7,5	10,5



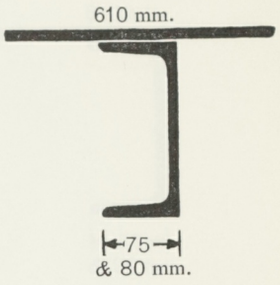
DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)
180	70	8	11



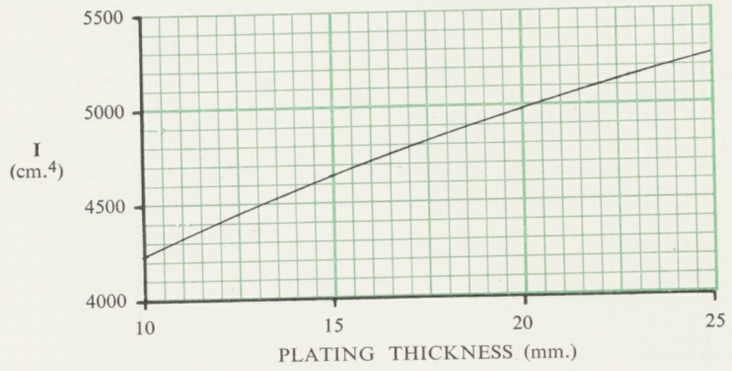


MOMENT OF INERTIA OF CHANNELS

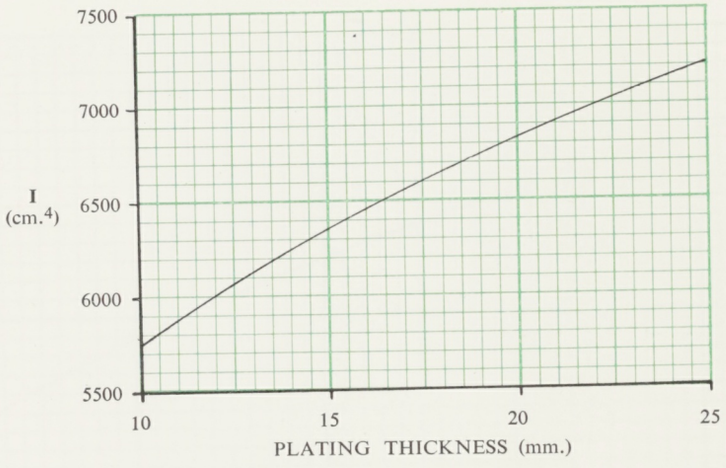
(WITH PLATING)



DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)
200	75	8,5	11

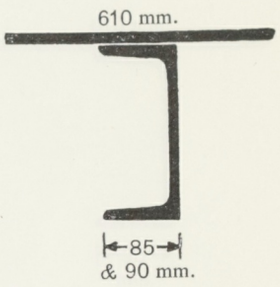


DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)
220	80	9	12,5

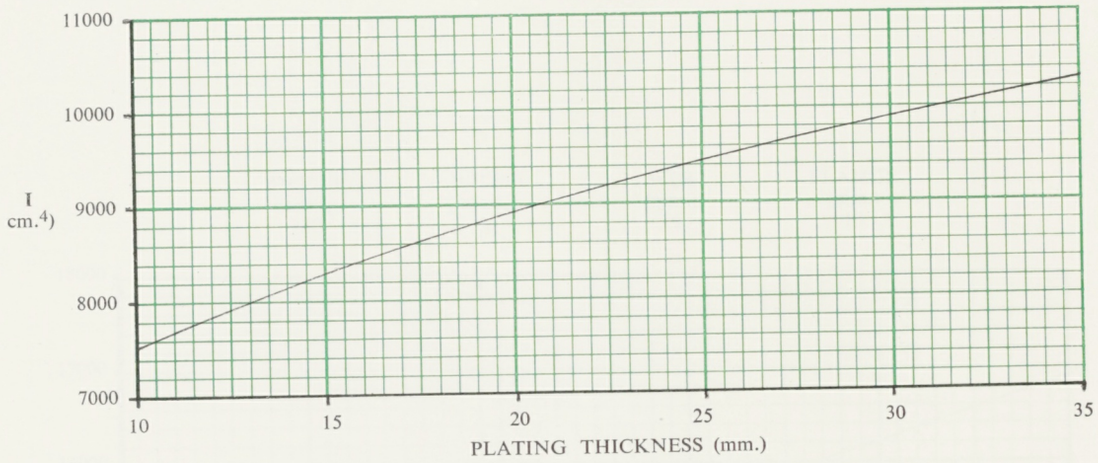


MOMENT OF INERTIA OF CHANNELS

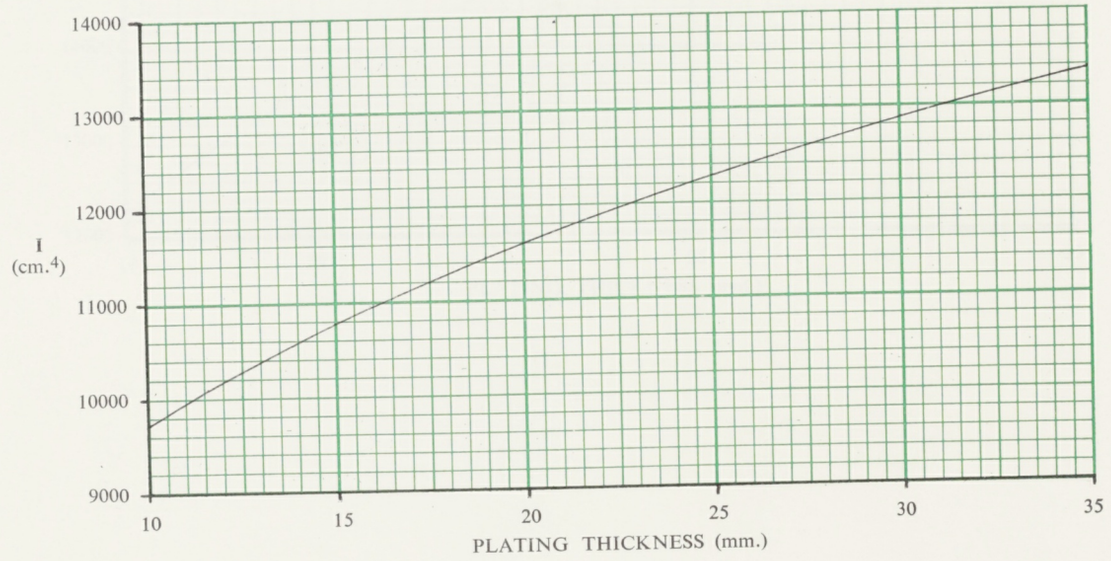
(WITH PLATING)

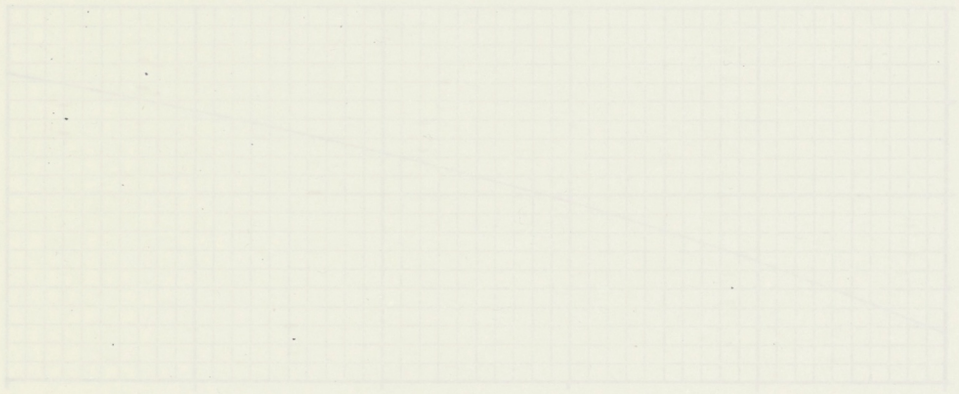


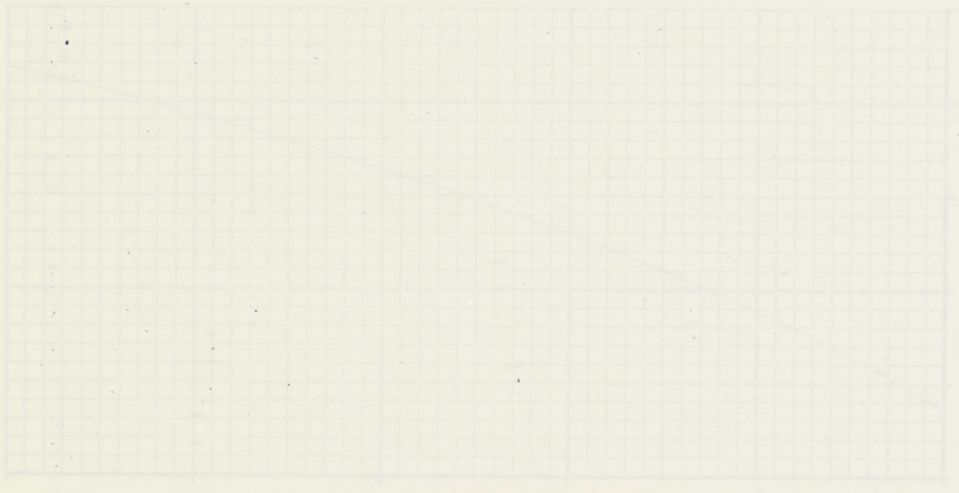
DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)
240	85	9,5	13



DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)
260	90	10	14

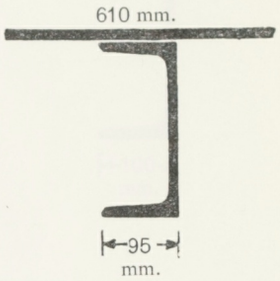




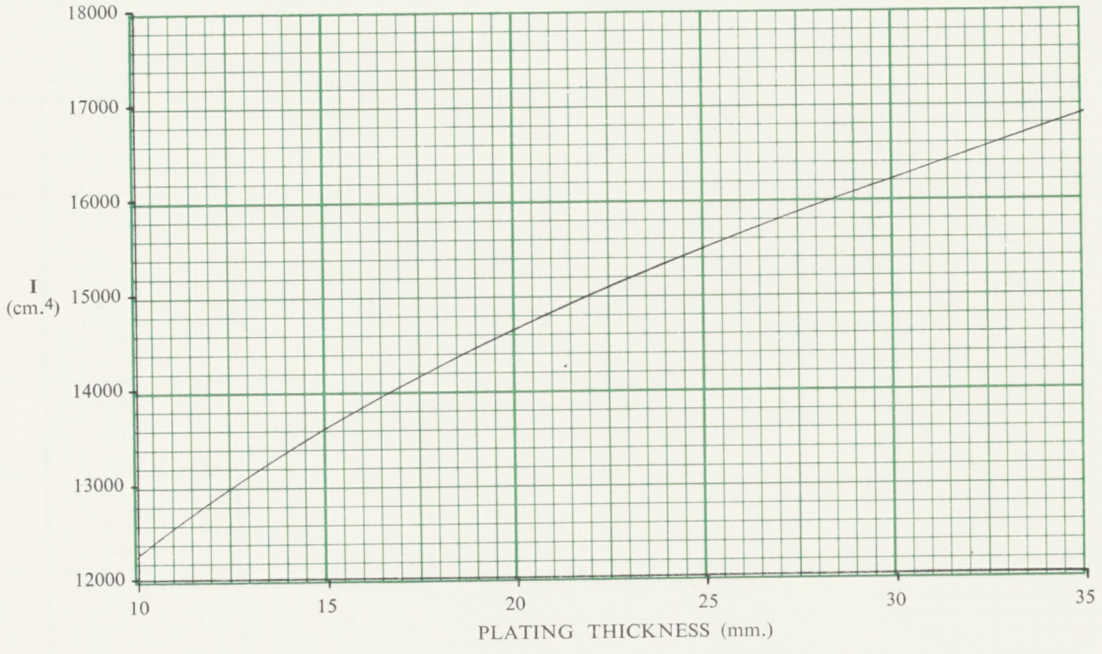


MOMENT OF INERTIA OF CHANNELS

(WITH PLATING)



DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)
280	95	10	15



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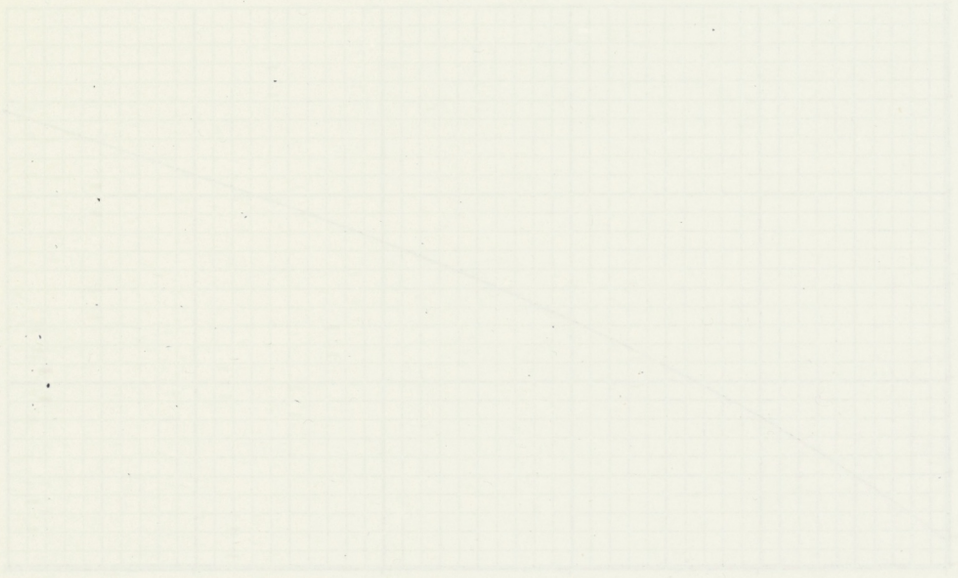
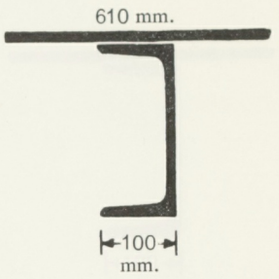
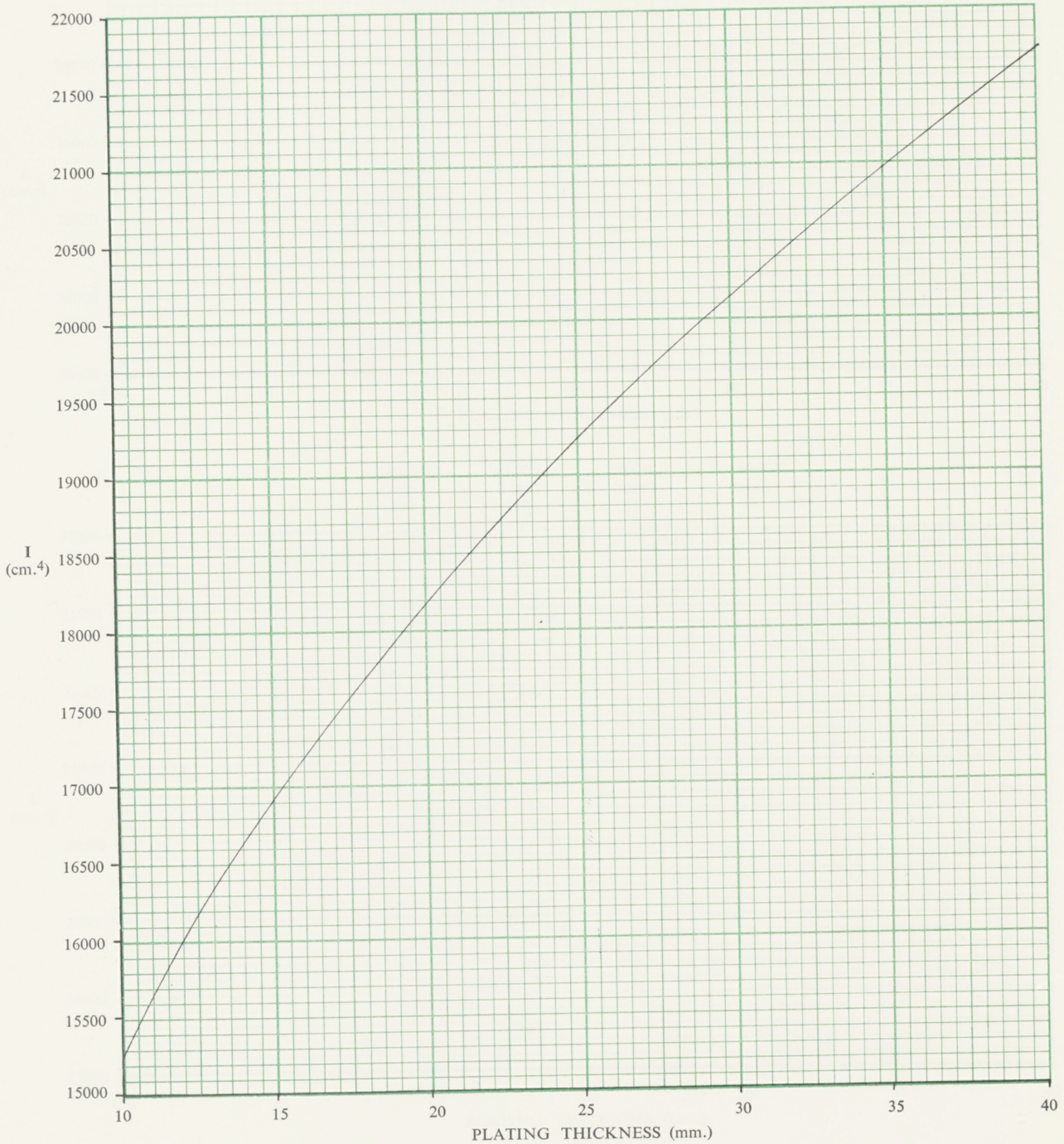


MOMENT OF INERTIA OF CHANNELS

(WITH PLATING)

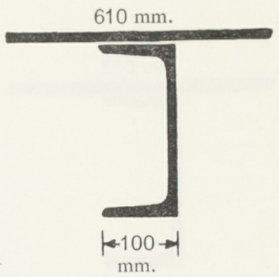


DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)
300	100	10	16

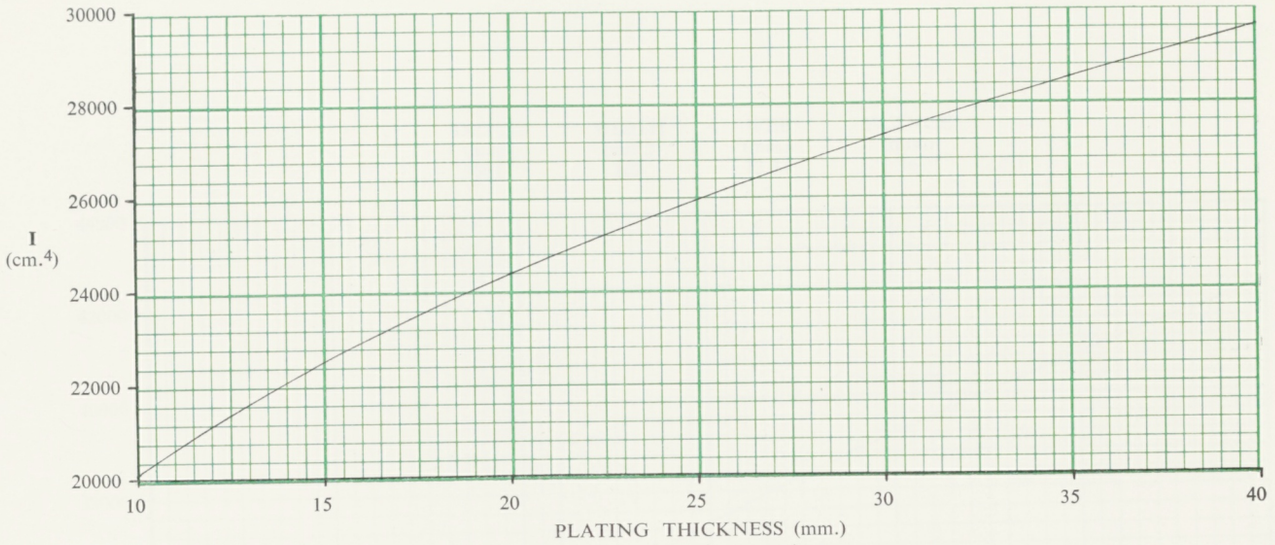


MOMENT OF INERTIA OF CHANNELS

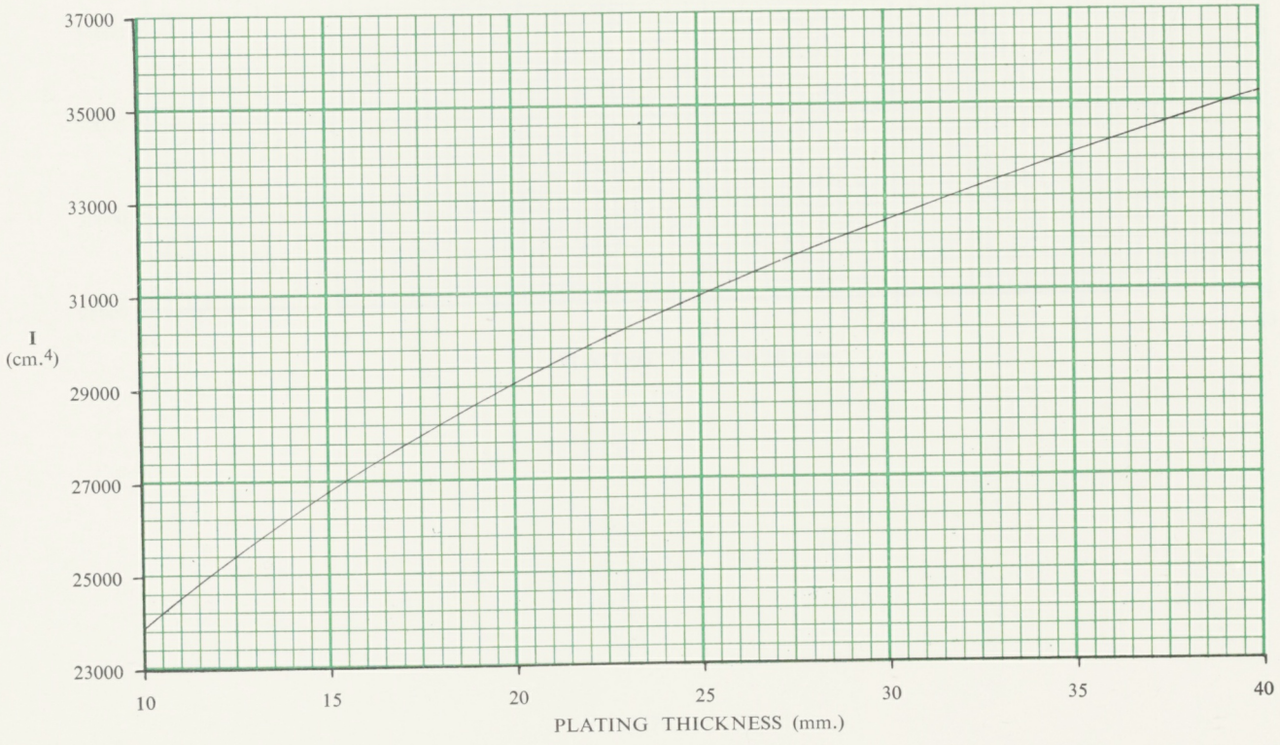
(WITH PLATING)



DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)
320	100	14	17,5

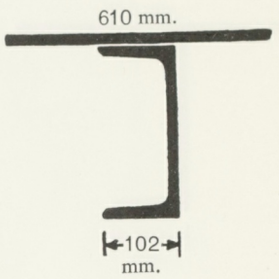


DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)
350	100	14	16



MOMENT OF INERTIA OF CHANNELS

(WITH PLATING)



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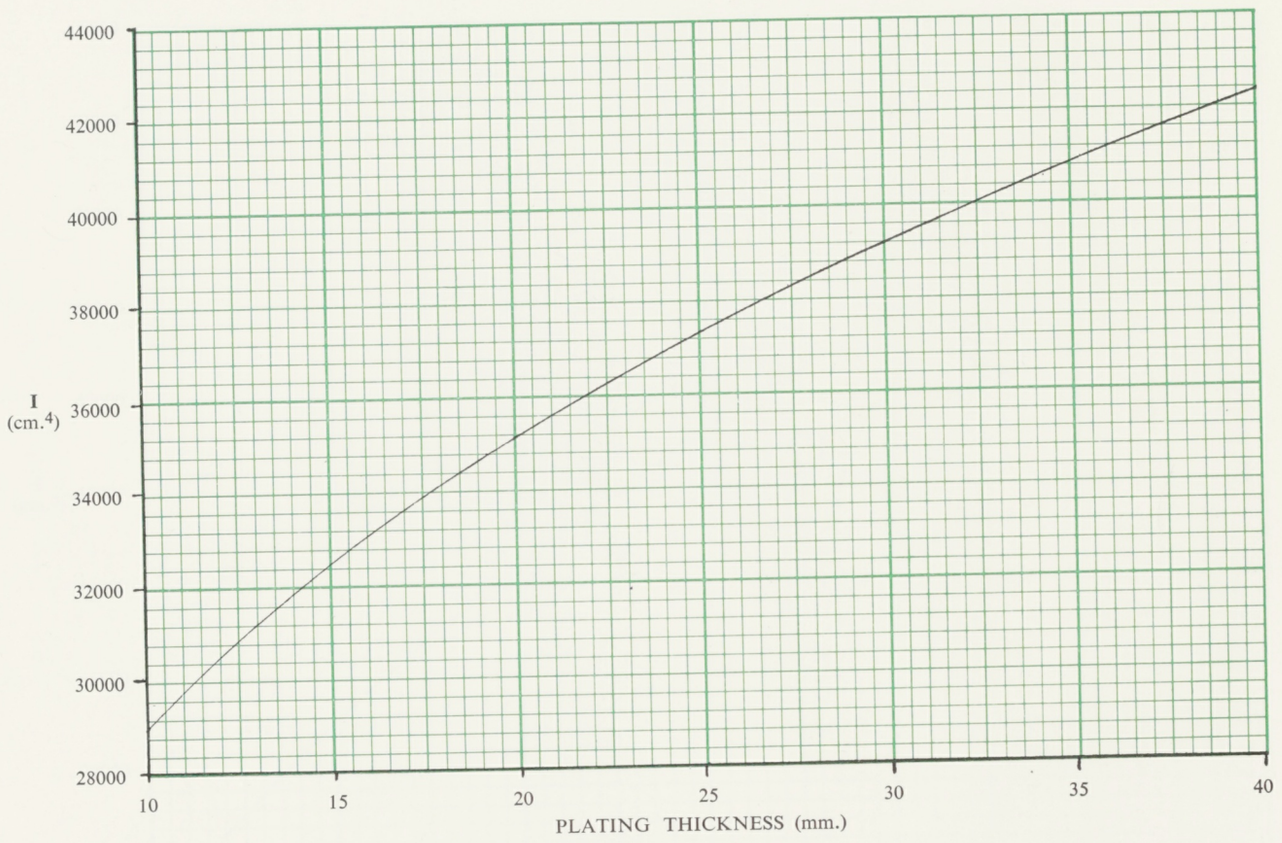
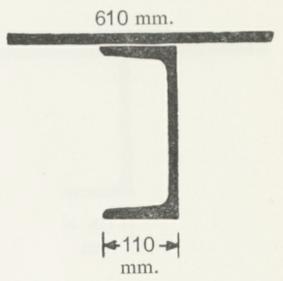


MOMENT OF INERTIA OF CHANNELS

(WITH PLATING)



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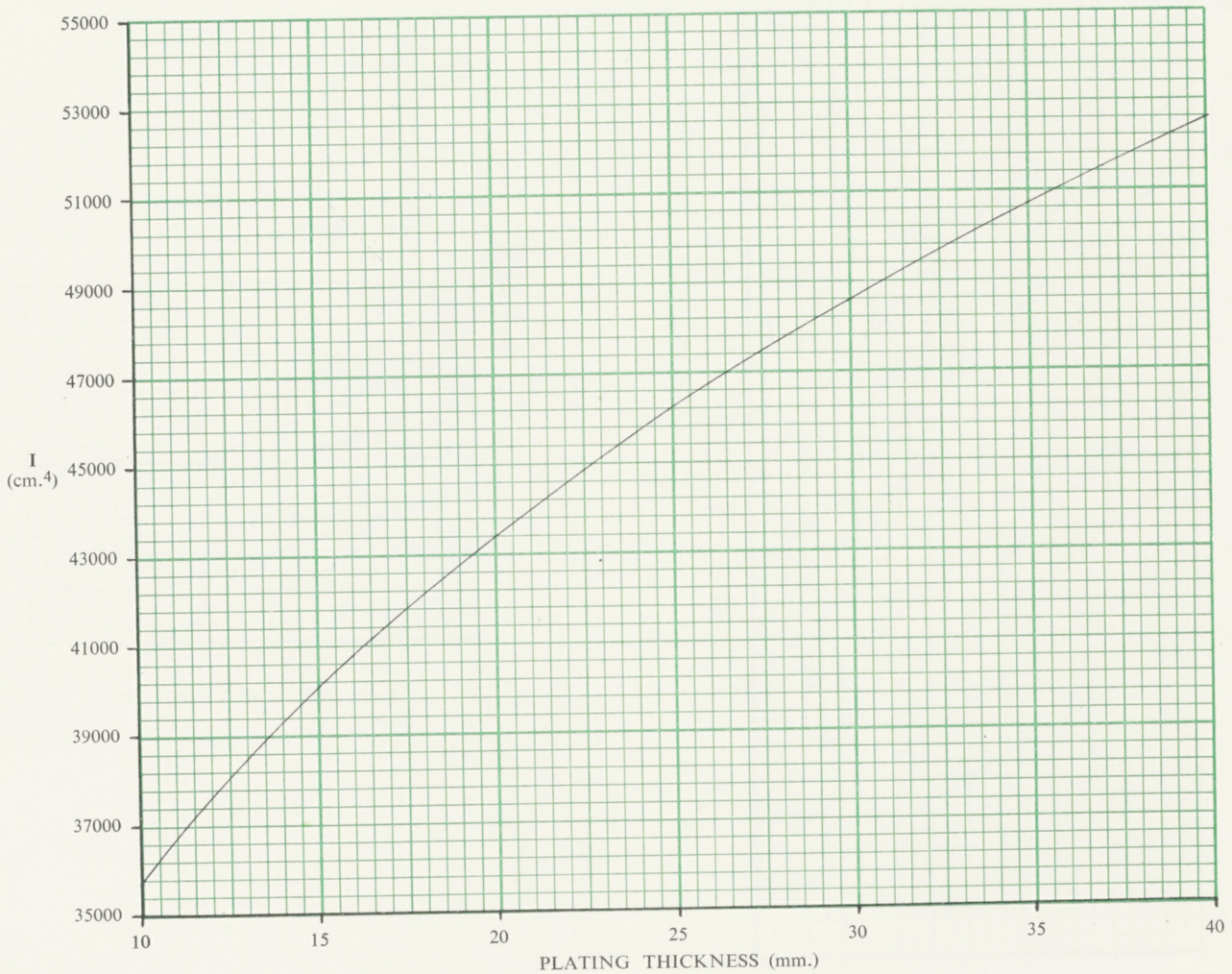
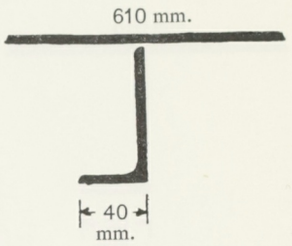
400	110	14	18



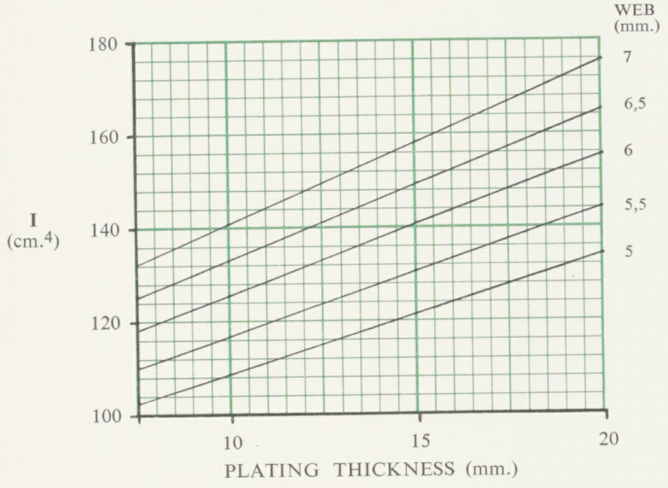
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

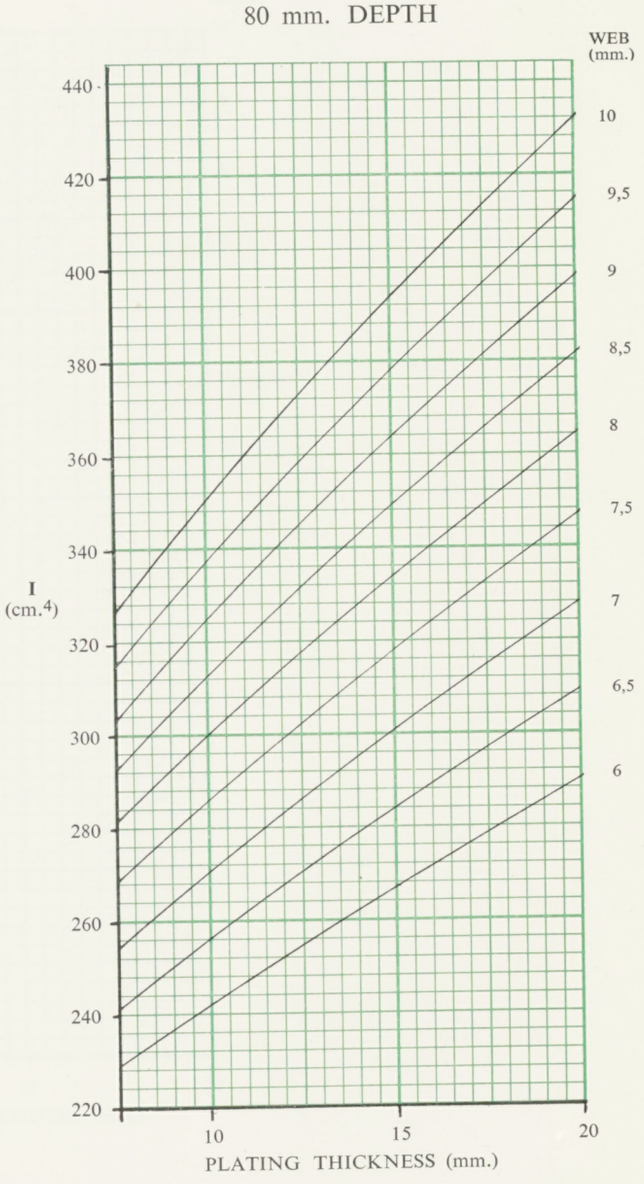


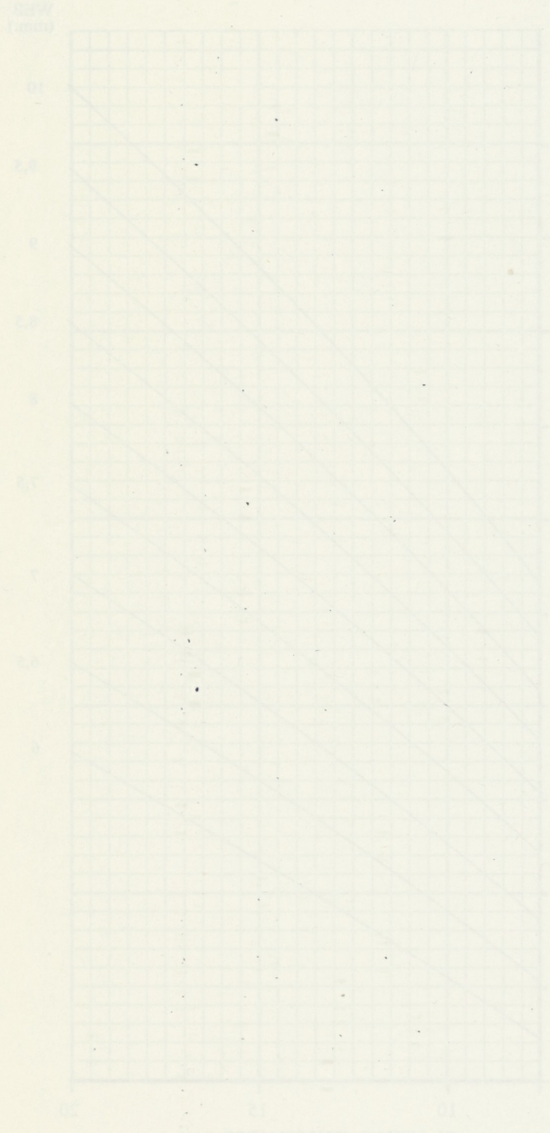
40 mm. FLANGE

60 mm. DEPTH



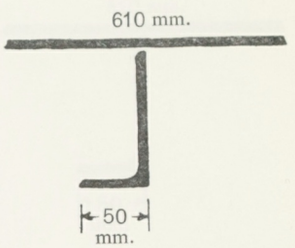
80 mm. DEPTH



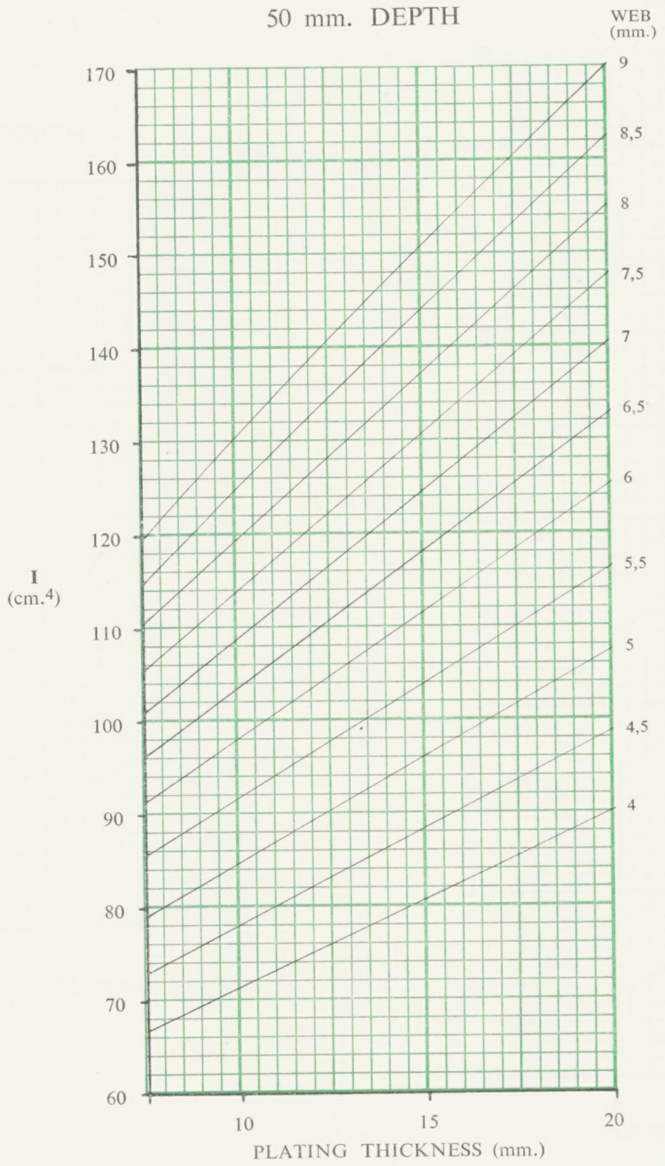


MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

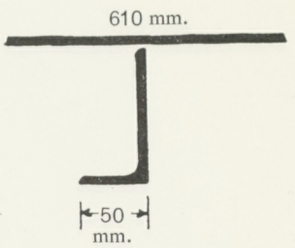


50 mm. FLANGE



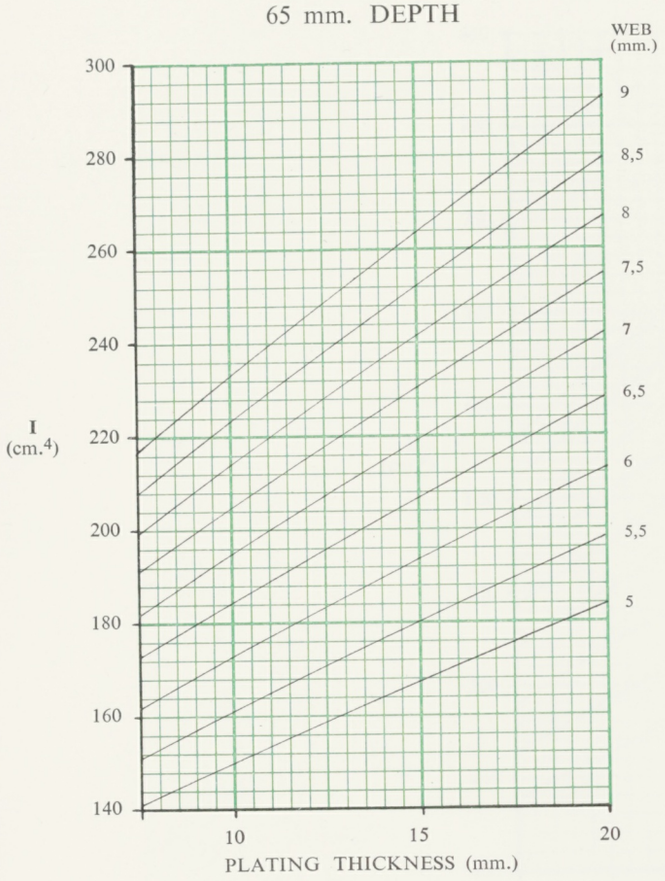
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

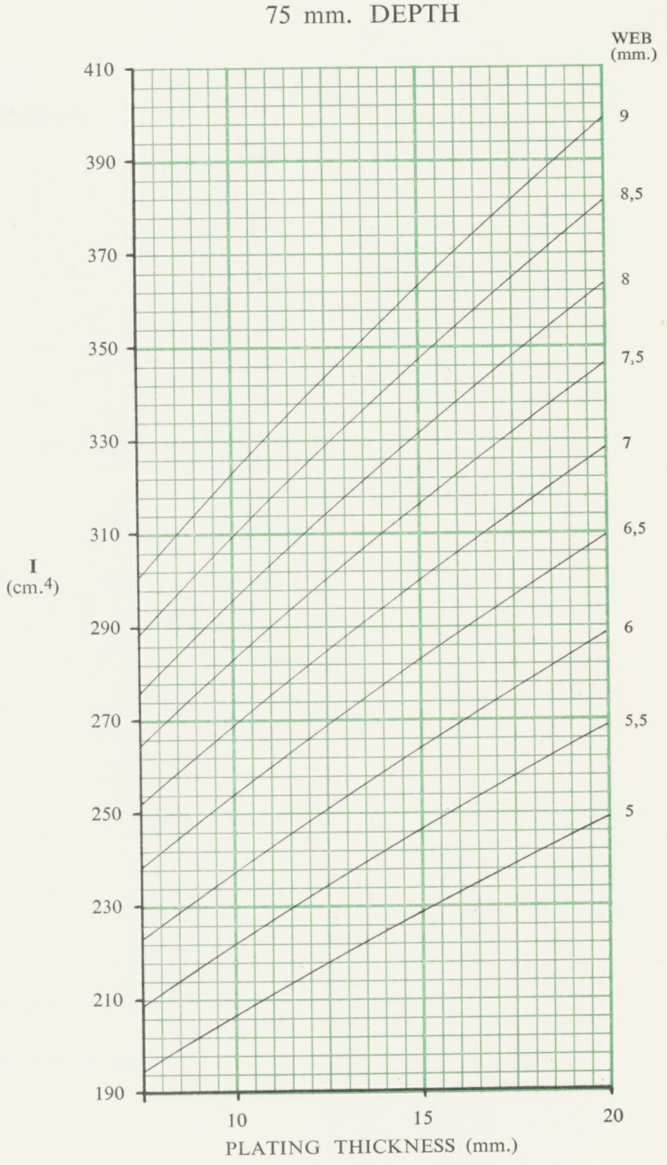


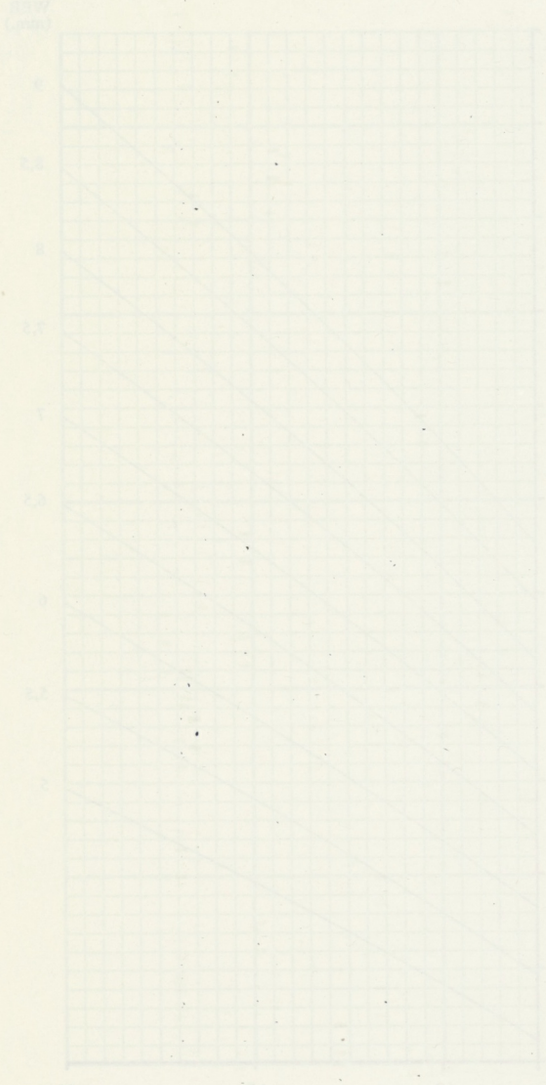
50 mm. FLANGE

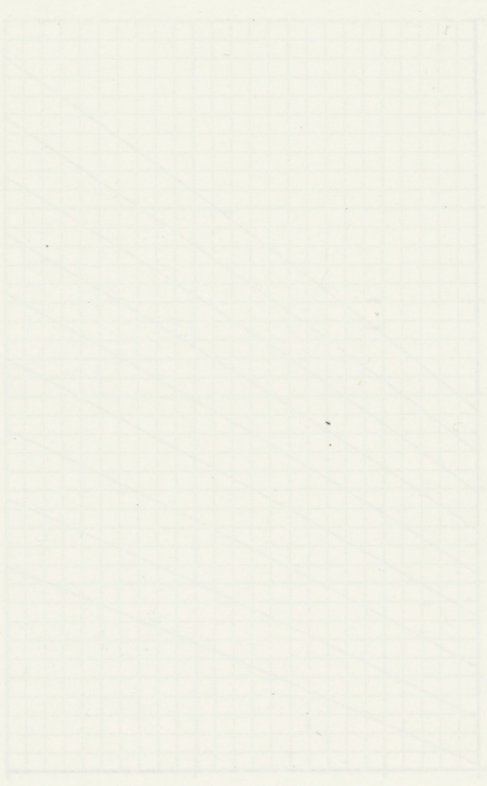
65 mm. DEPTH



75 mm. DEPTH

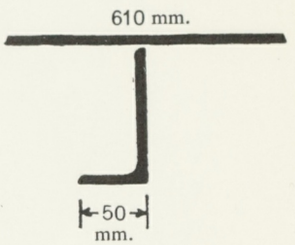






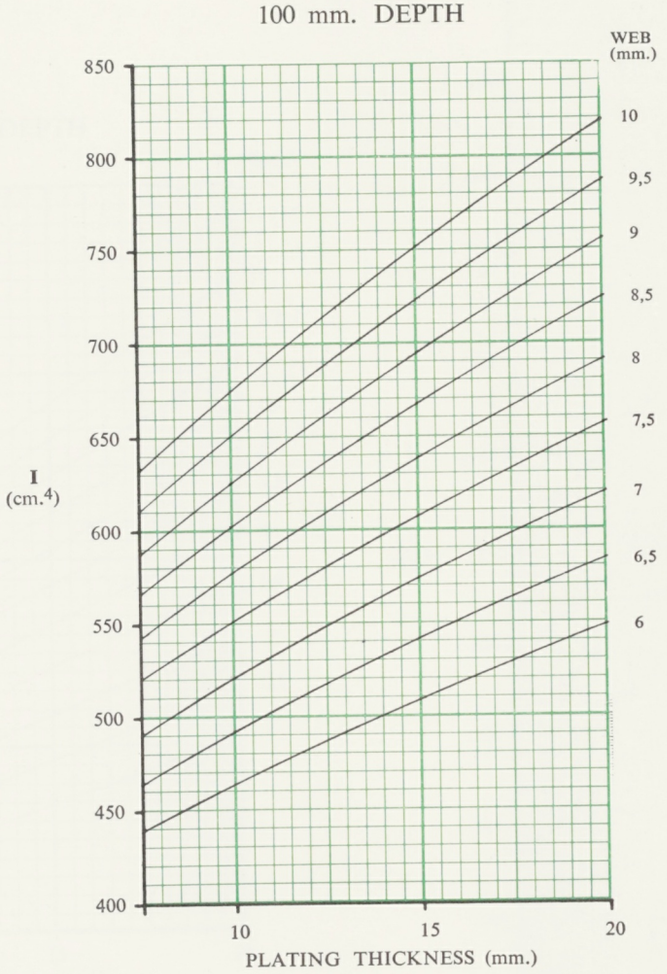
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)



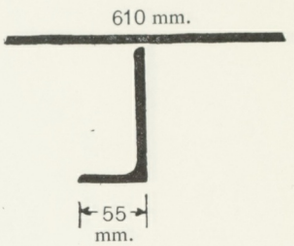
50 mm. FLANGE

100 mm. DEPTH



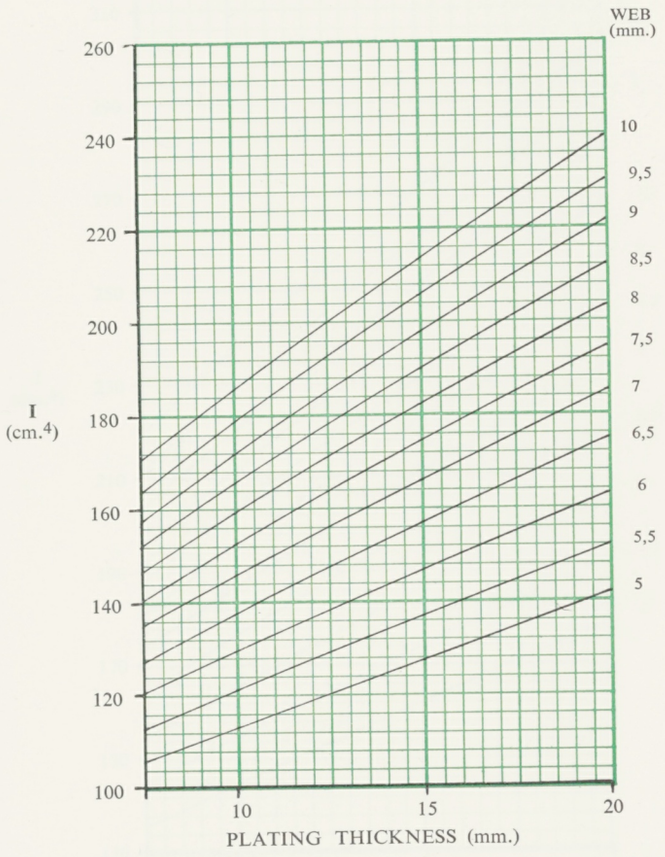
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

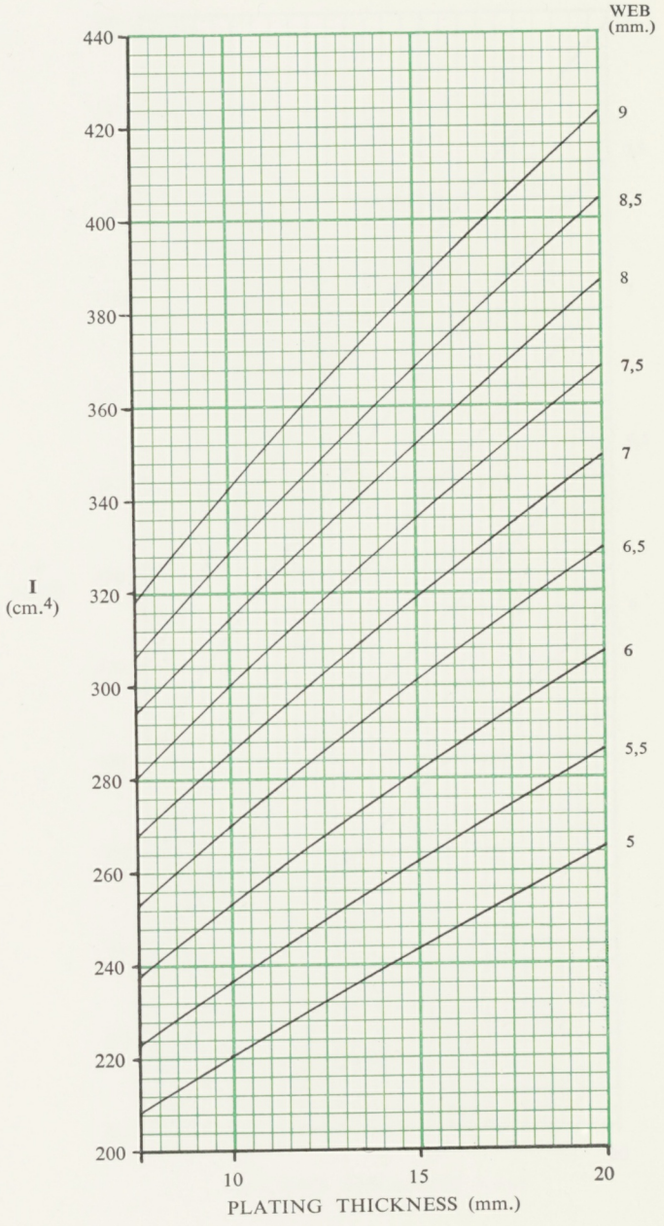


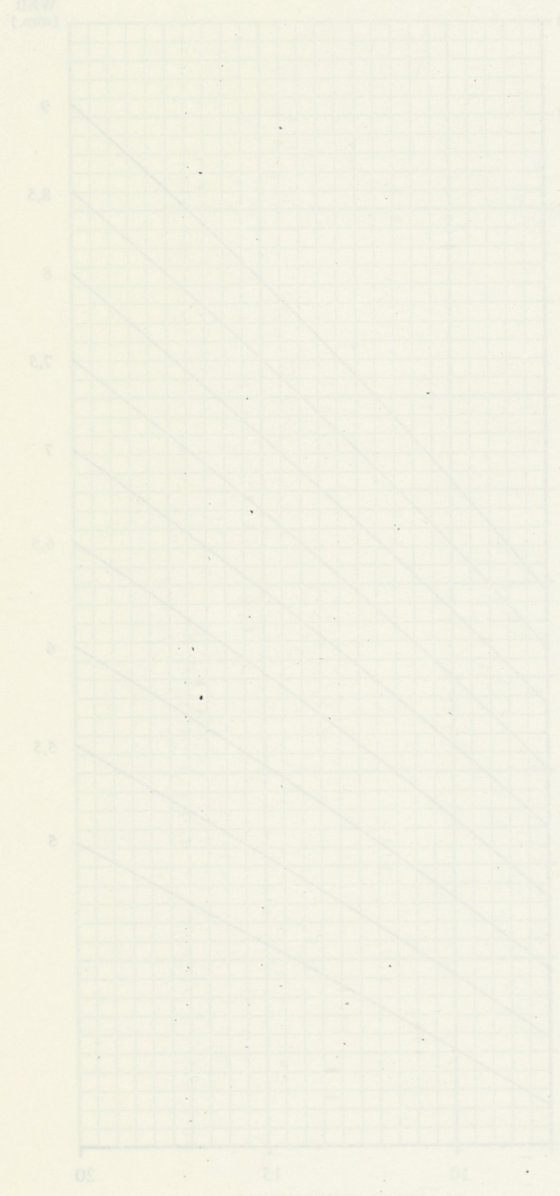
55 mm. FLANGE

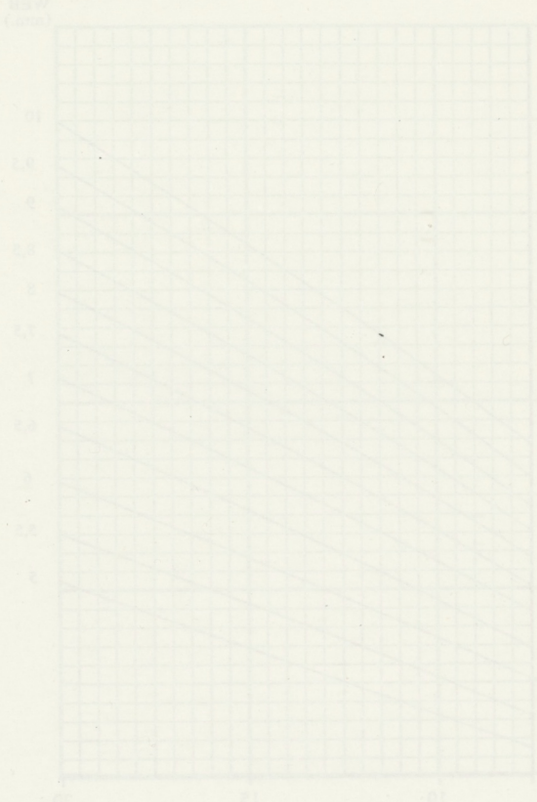
55 mm. DEPTH



75 mm. DEPTH

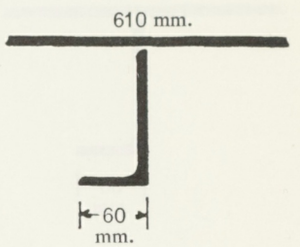






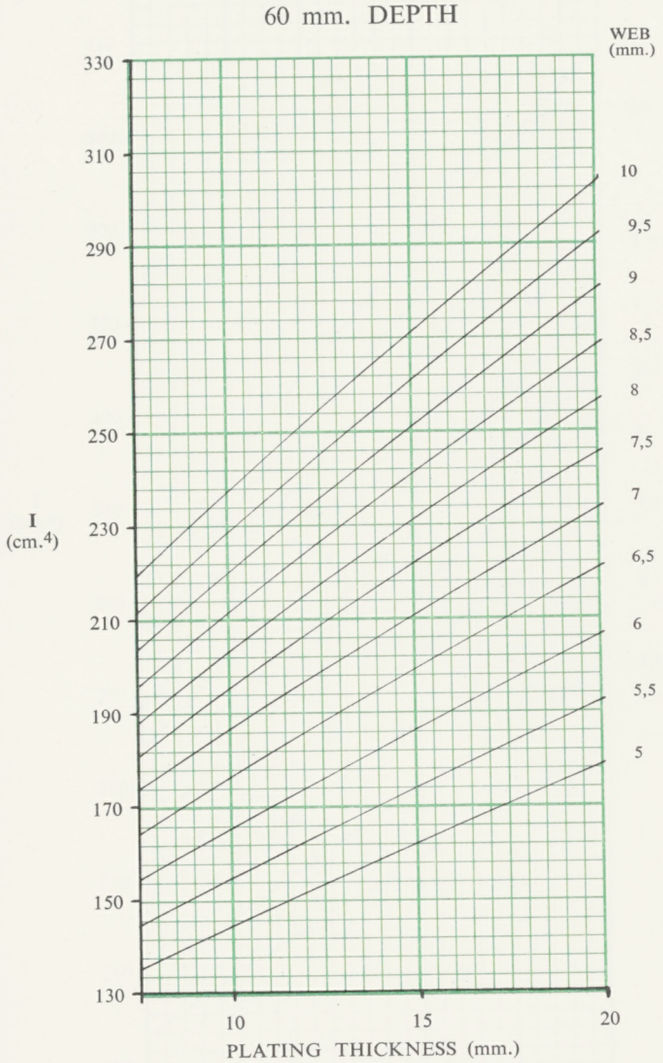
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

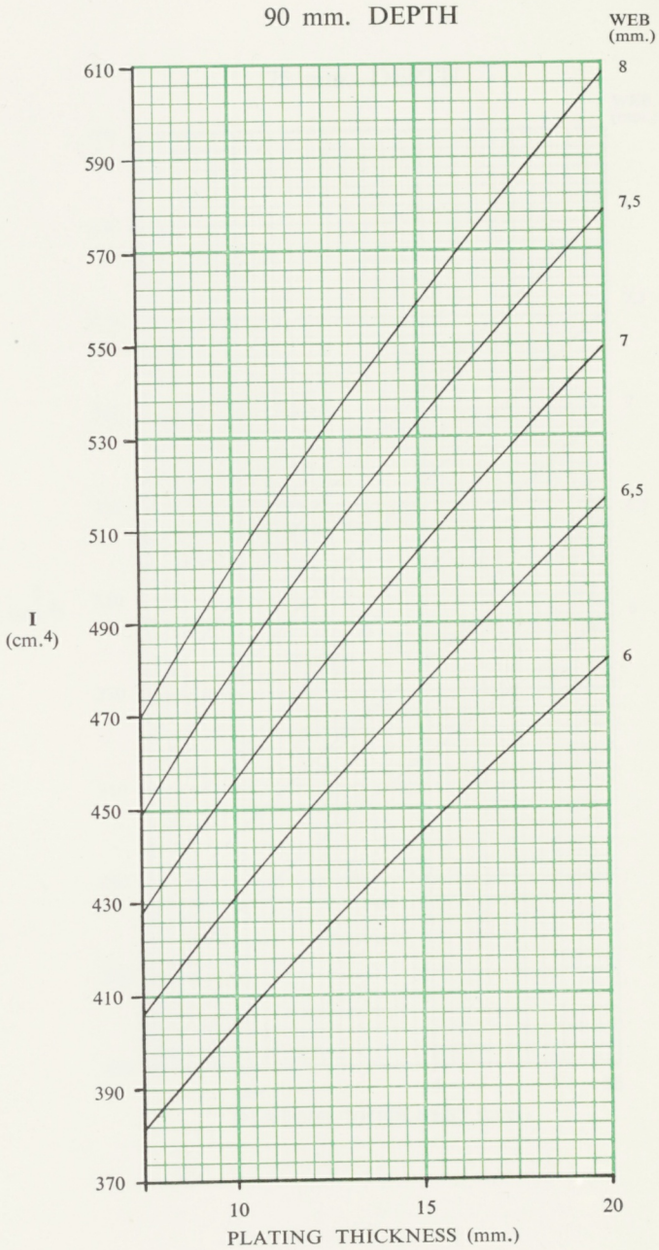


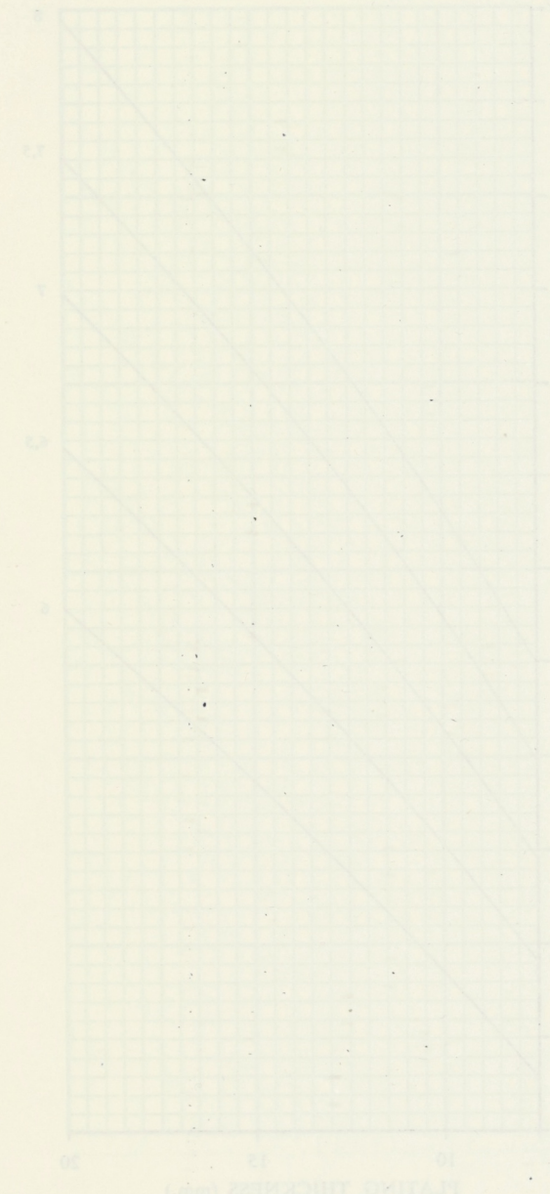
60 mm. FLANGE

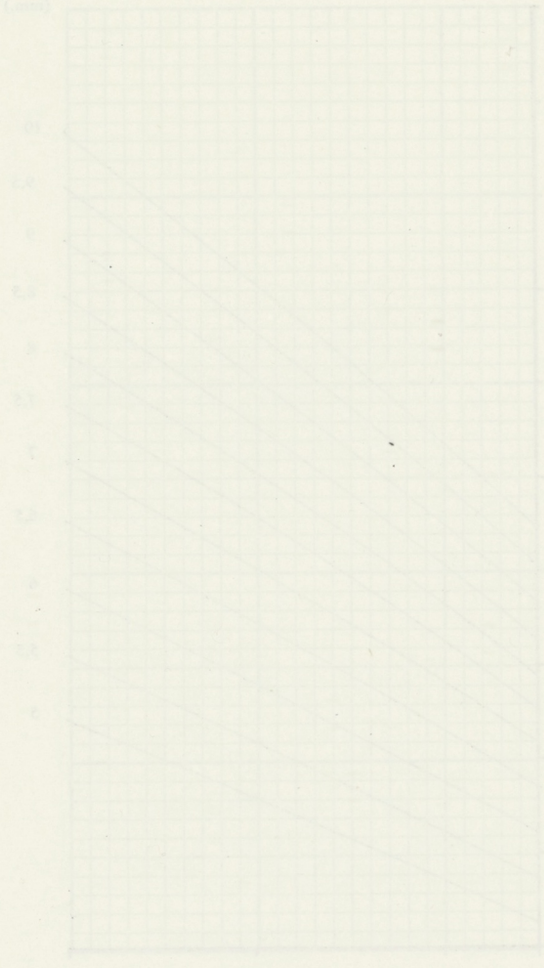
60 mm. DEPTH



90 mm. DEPTH

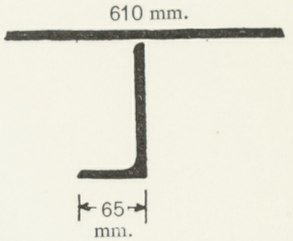






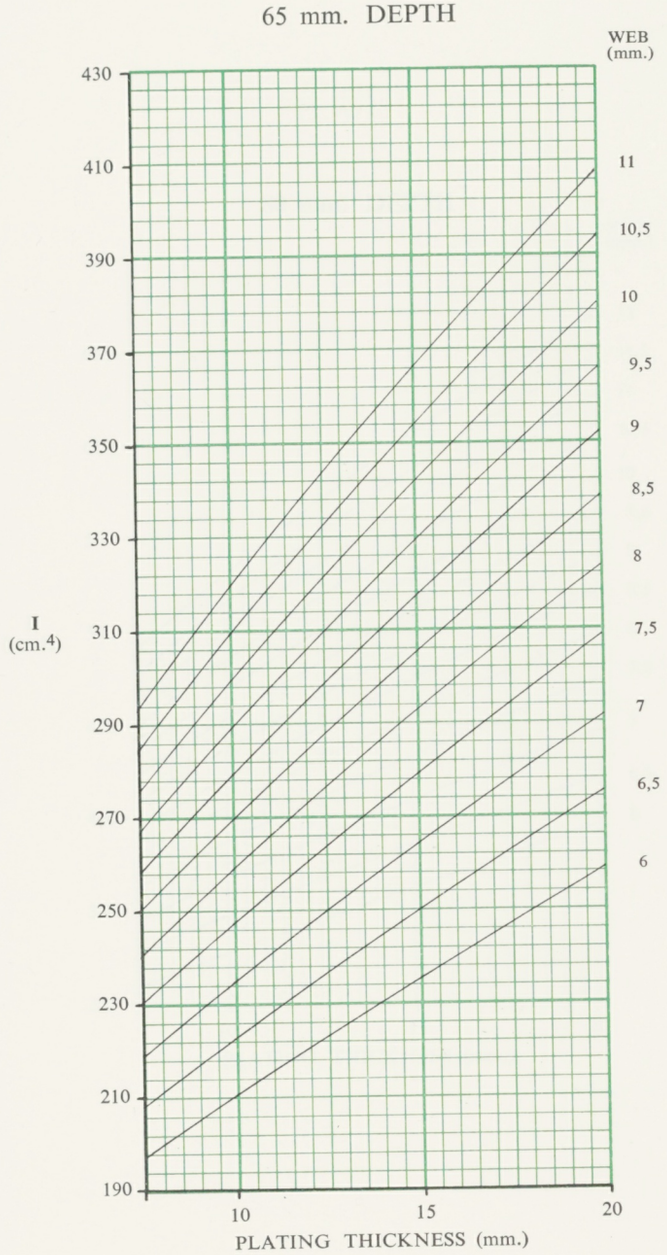
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

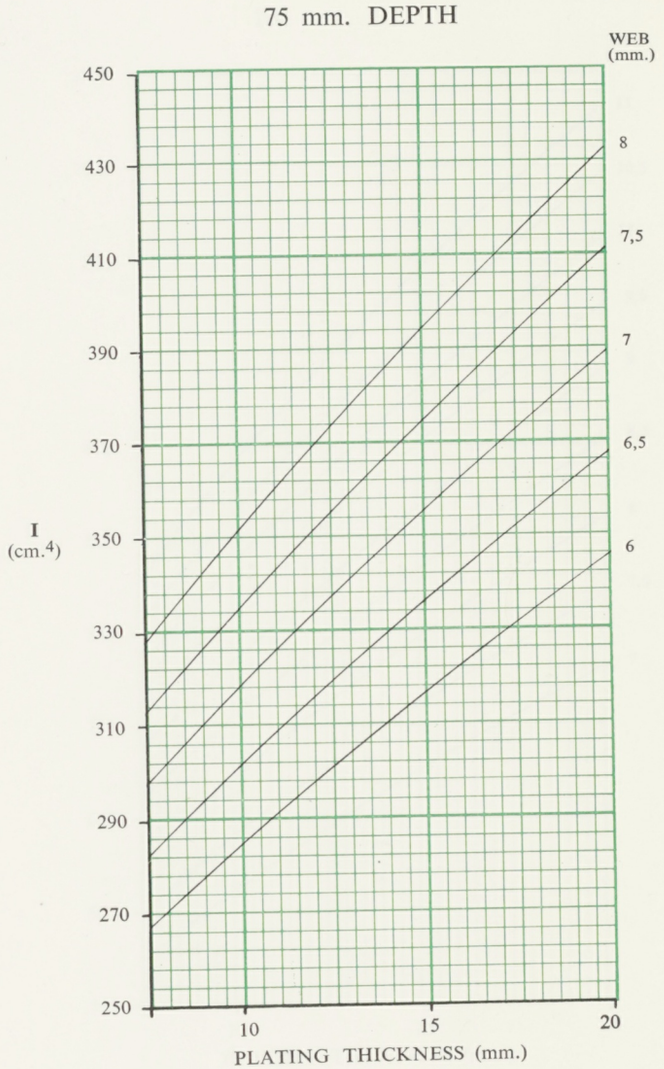


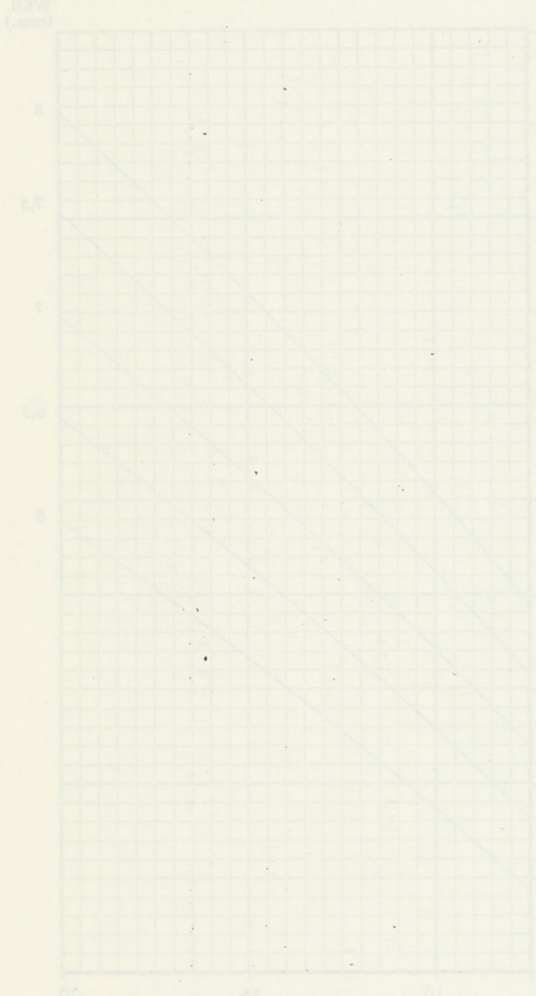
65 mm. FLANGE

65 mm. DEPTH



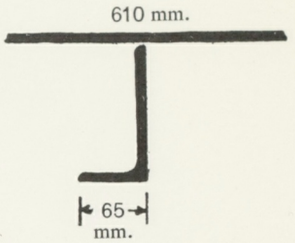
75 mm. DEPTH





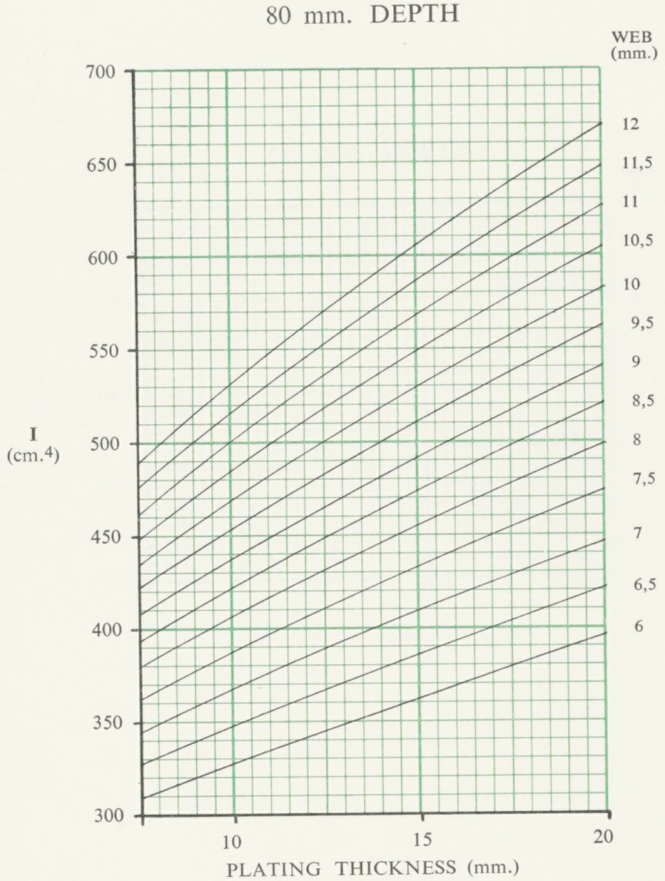
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

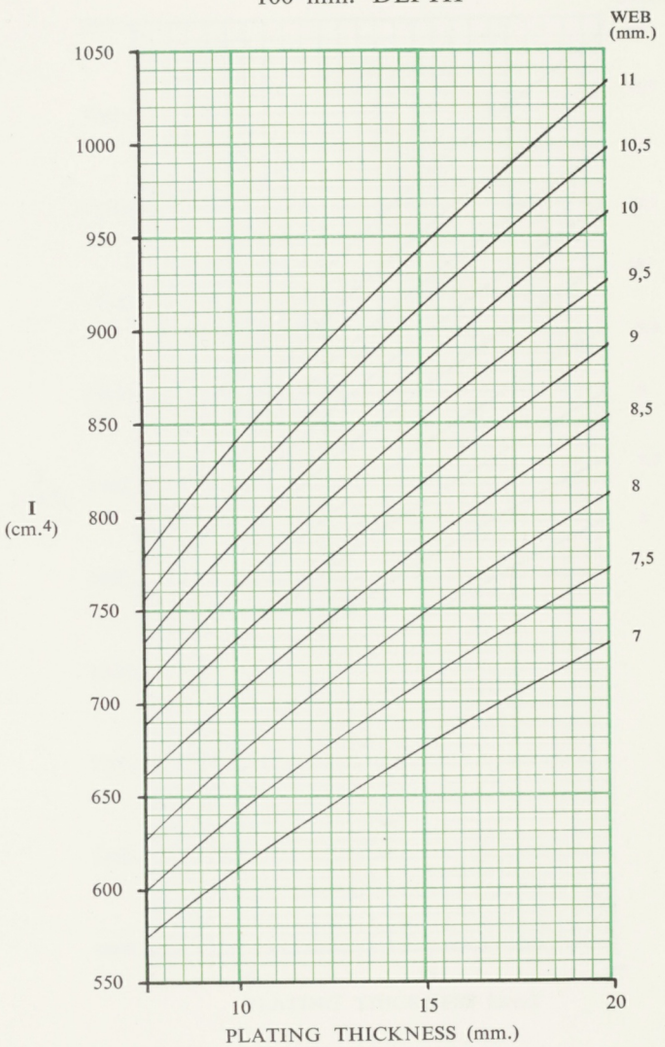


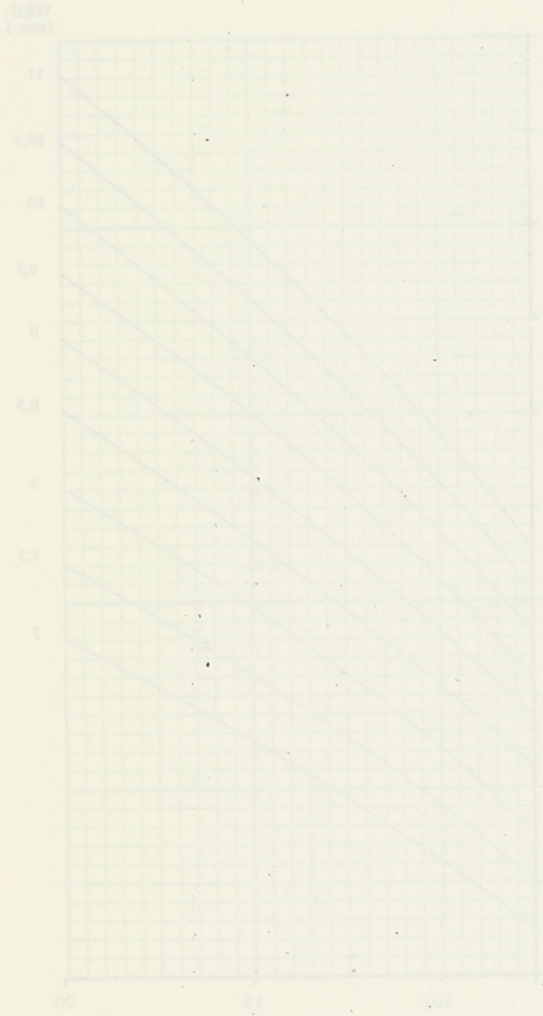
65 mm. FLANGE

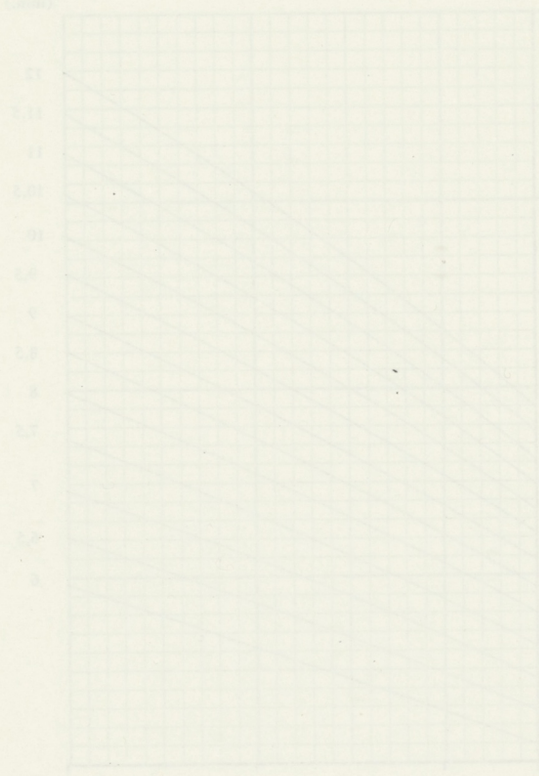
80 mm. DEPTH



100 mm. DEPTH

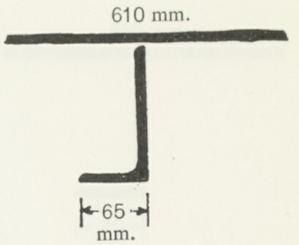






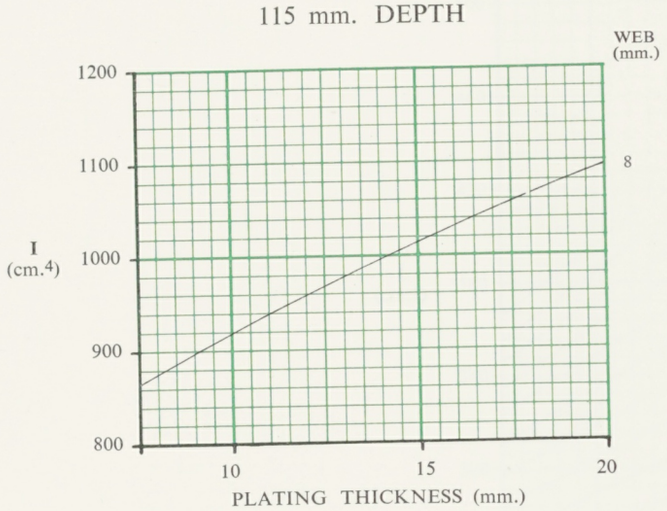
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

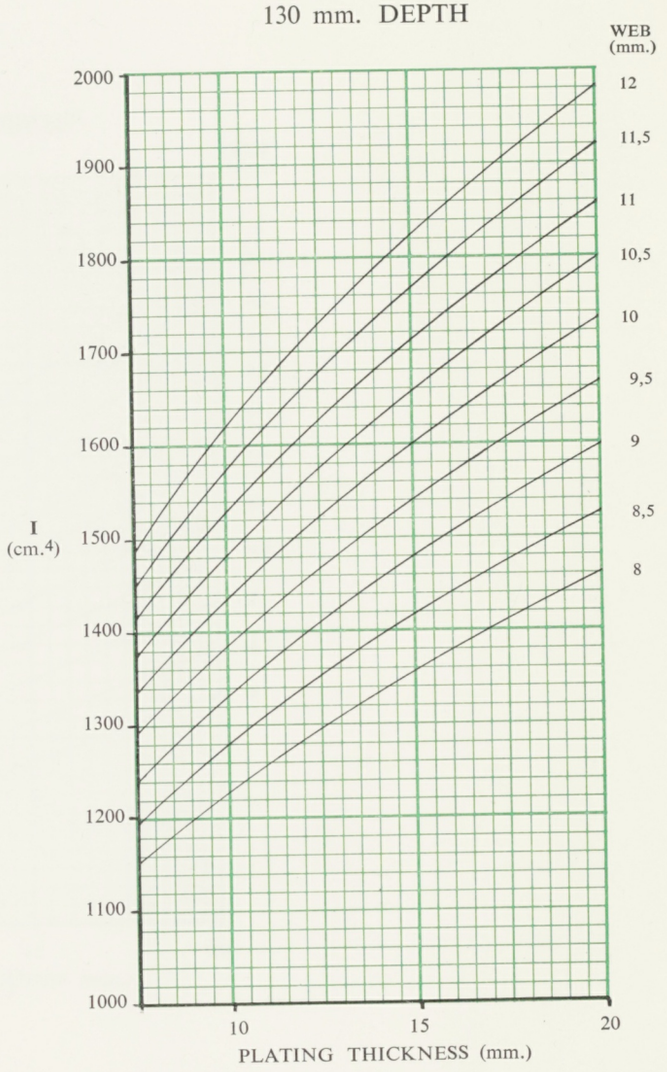


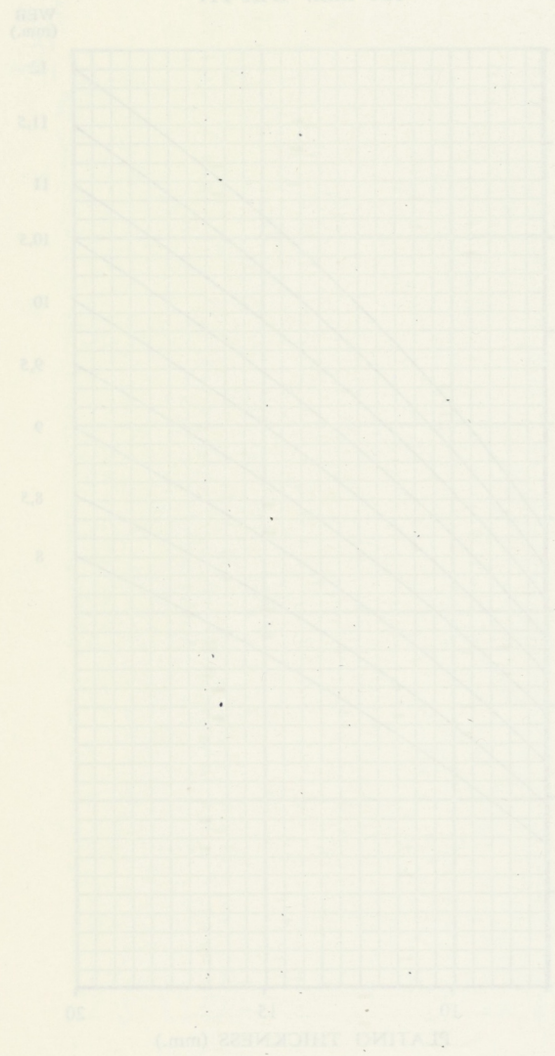
65 mm. FLANGE

115 mm. DEPTH



130 mm. DEPTH





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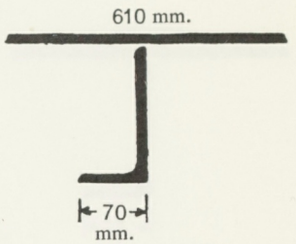
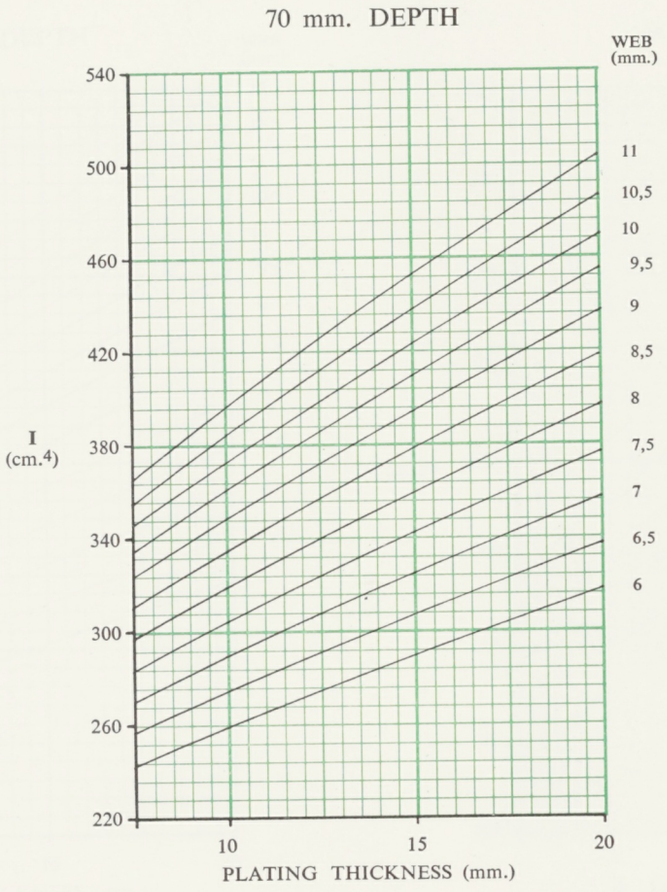
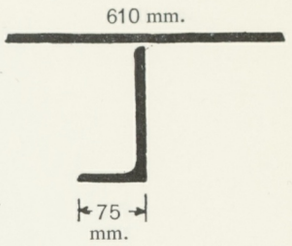


70 mm. FLANGE



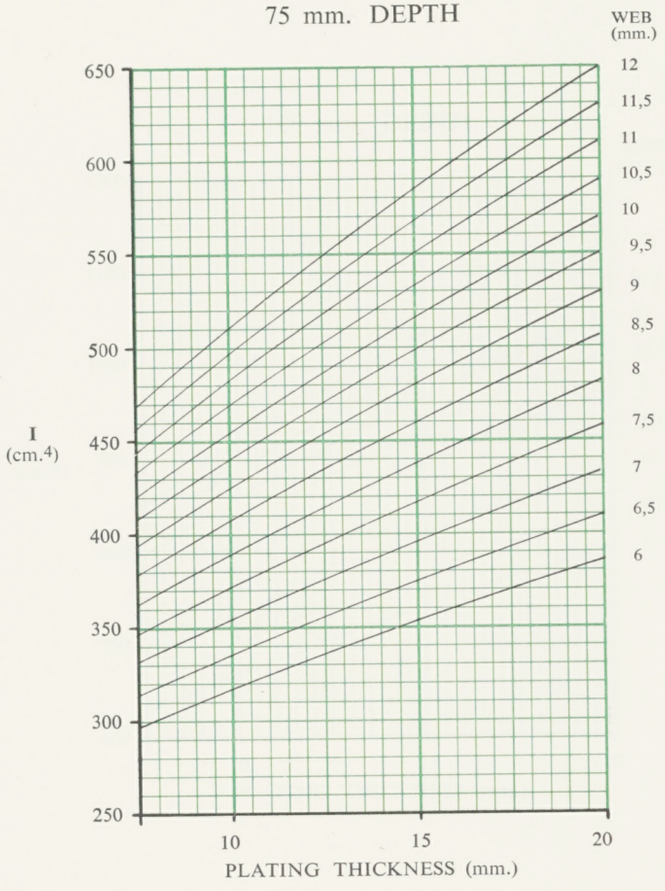
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

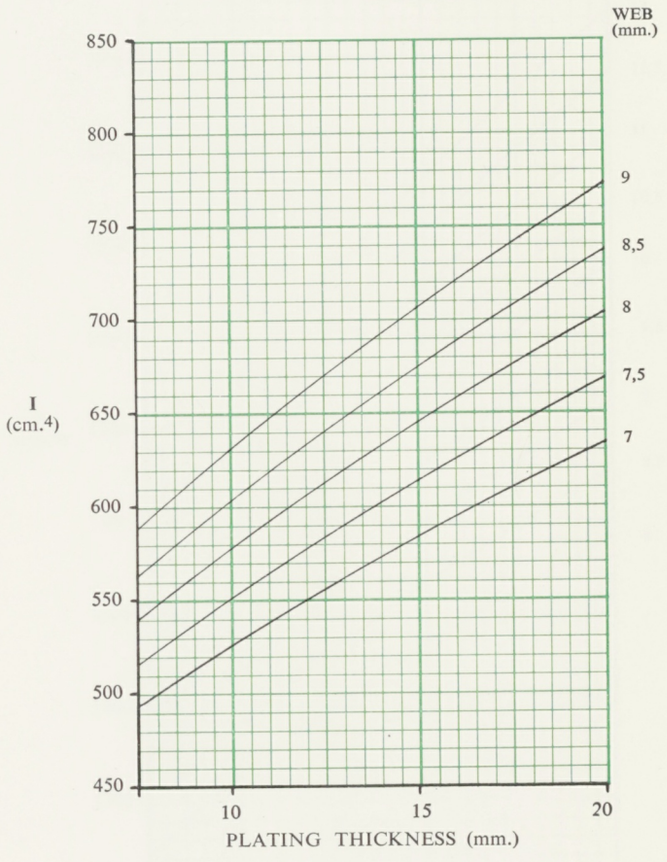


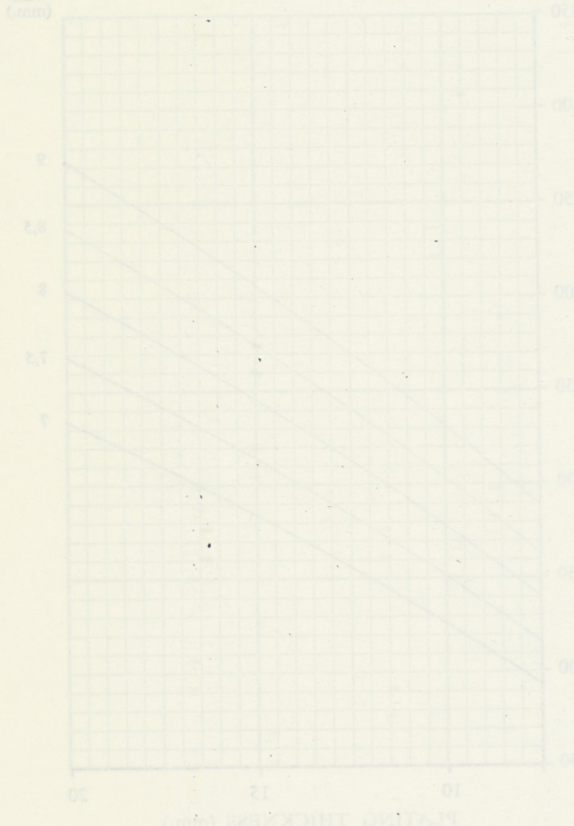
75 mm. FLANGE

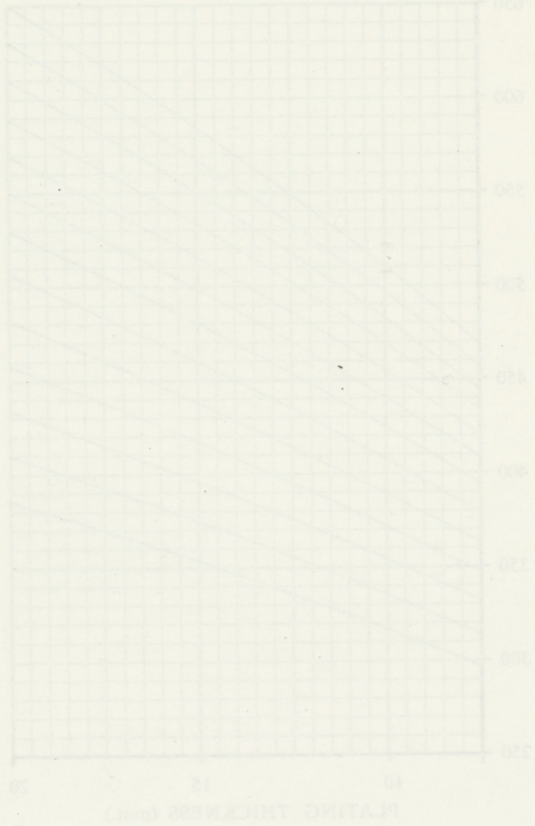
75 mm. DEPTH



90 mm. DEPTH

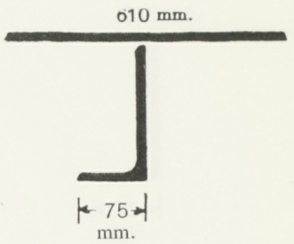






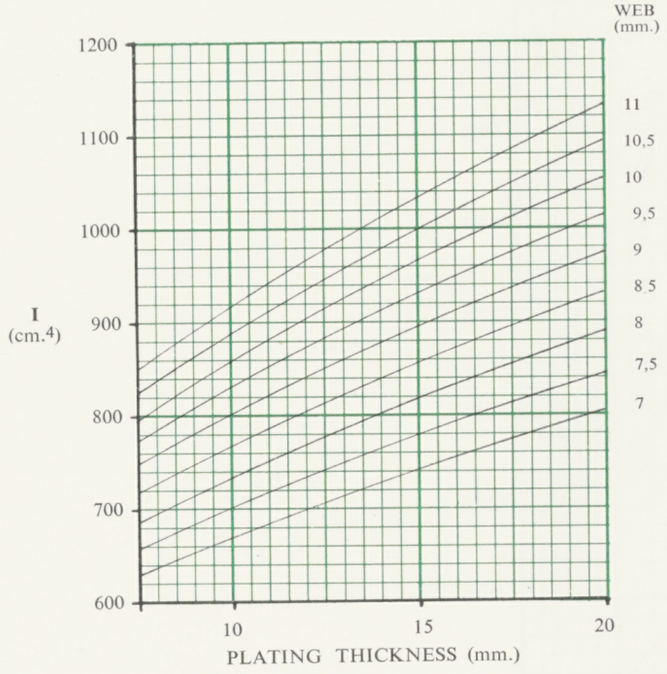
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

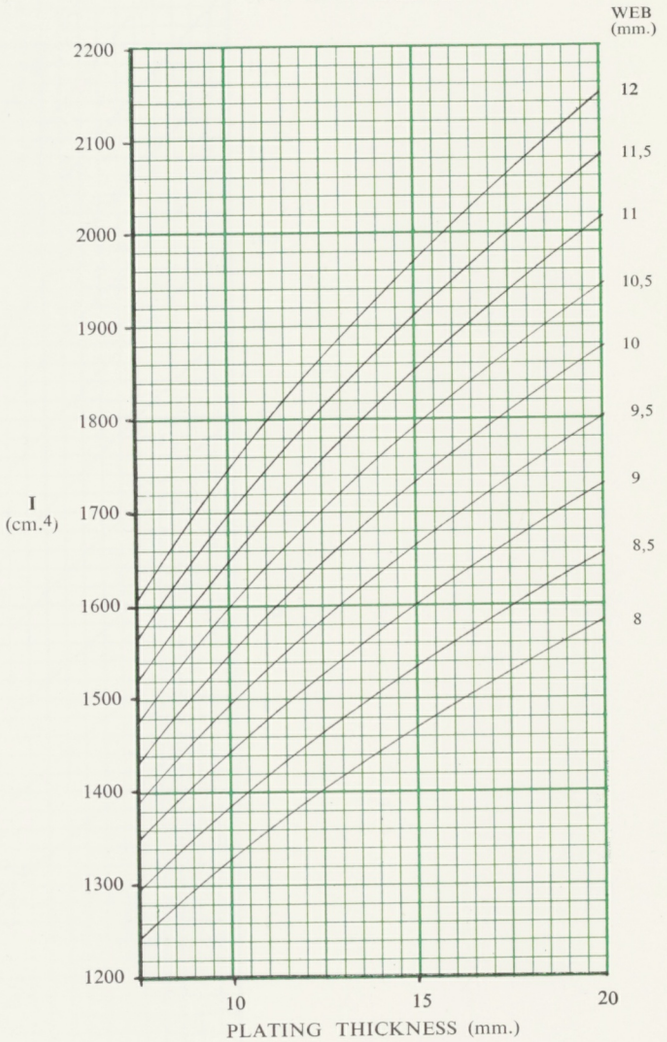


75 mm. FLANGE

100 mm. DEPTH



130 mm. DEPTH



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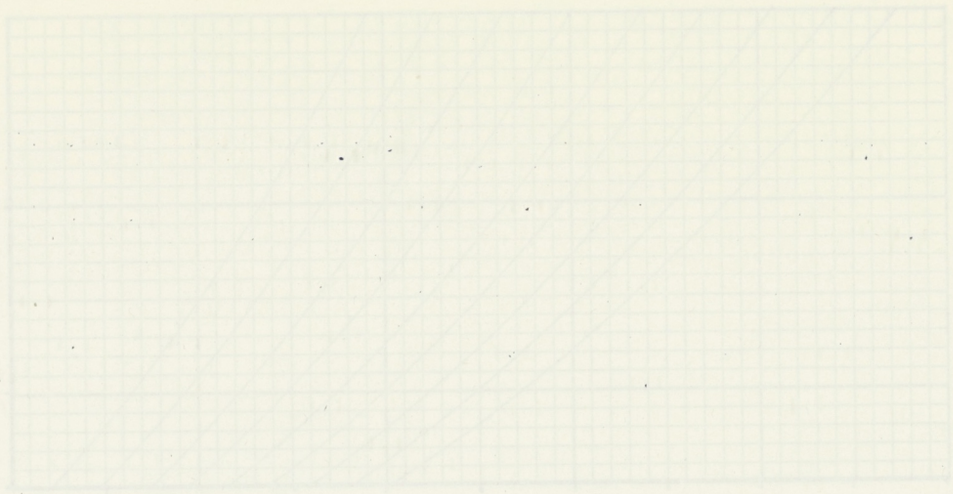
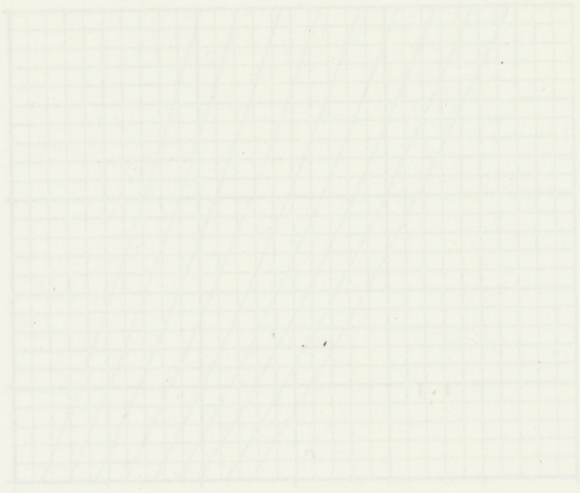
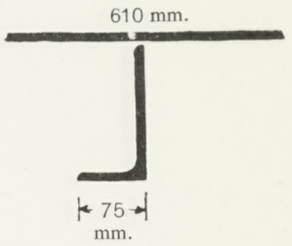




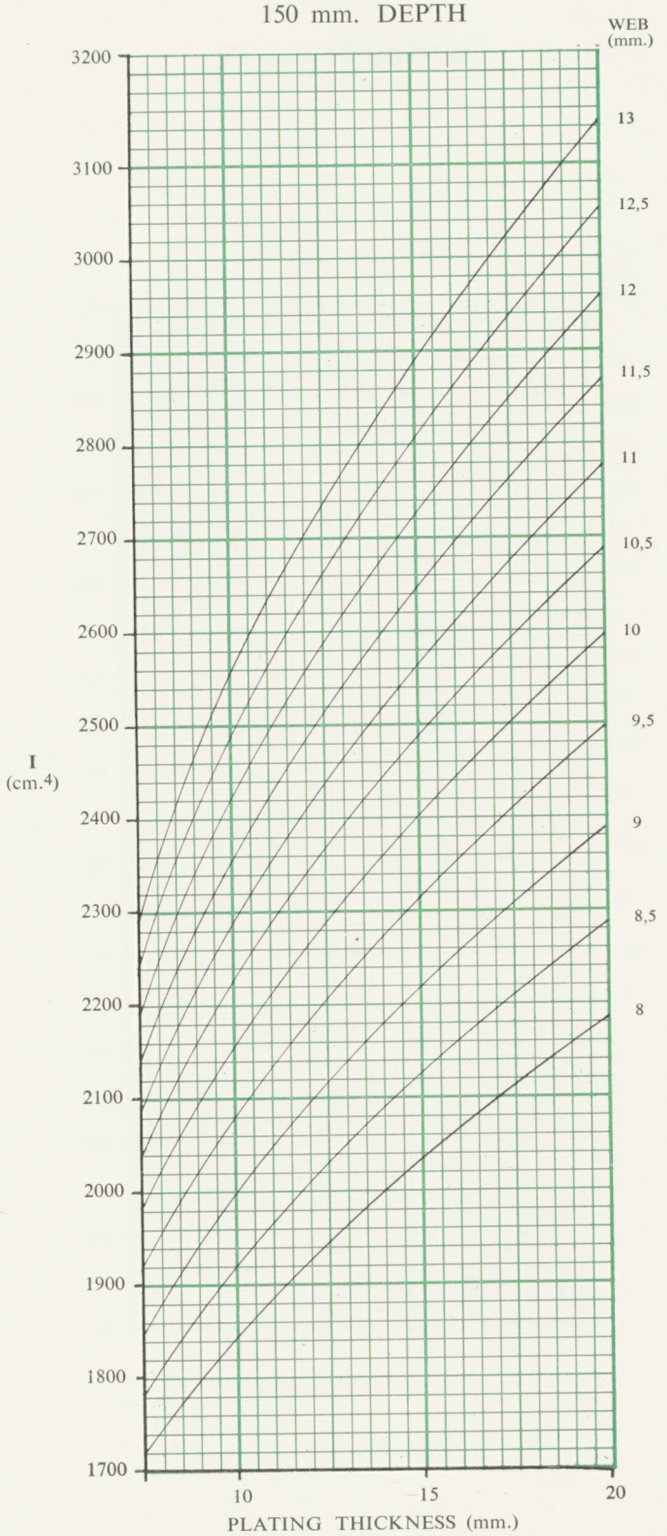
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)



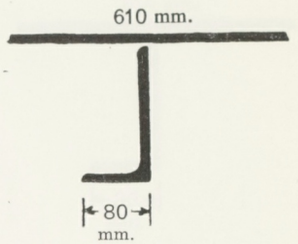
75 mm. FLANGE

150 mm. DEPTH



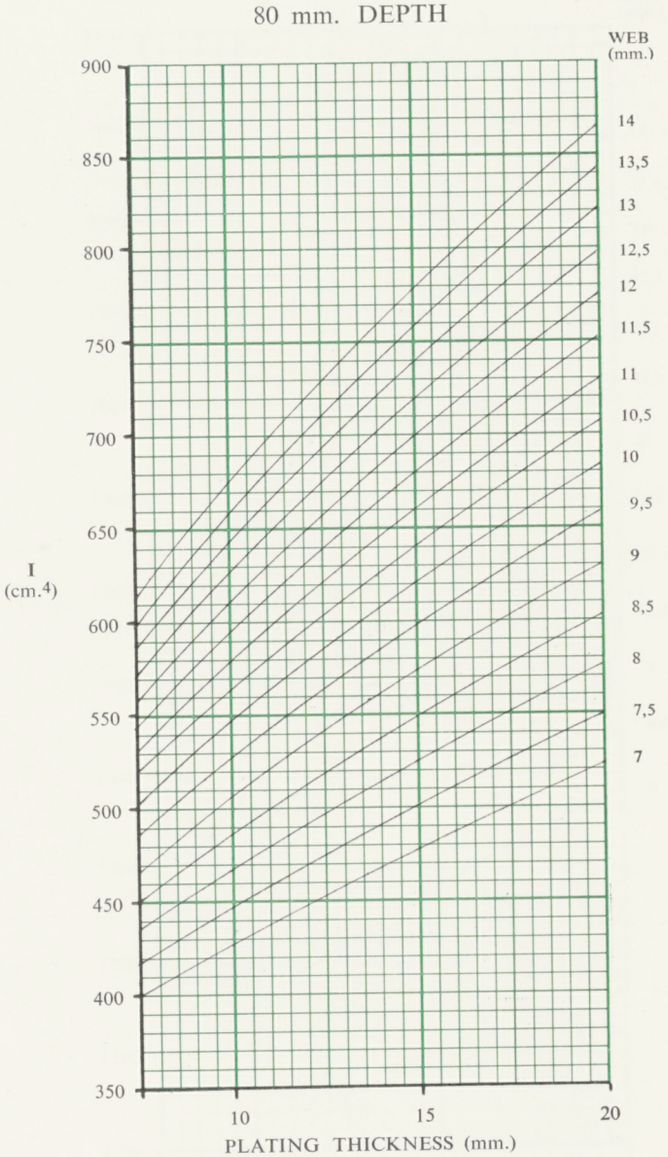
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)



80 mm. FLANGE

80 mm. DEPTH



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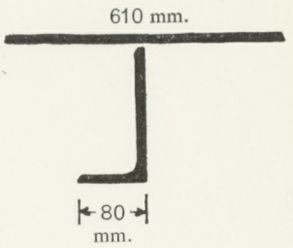
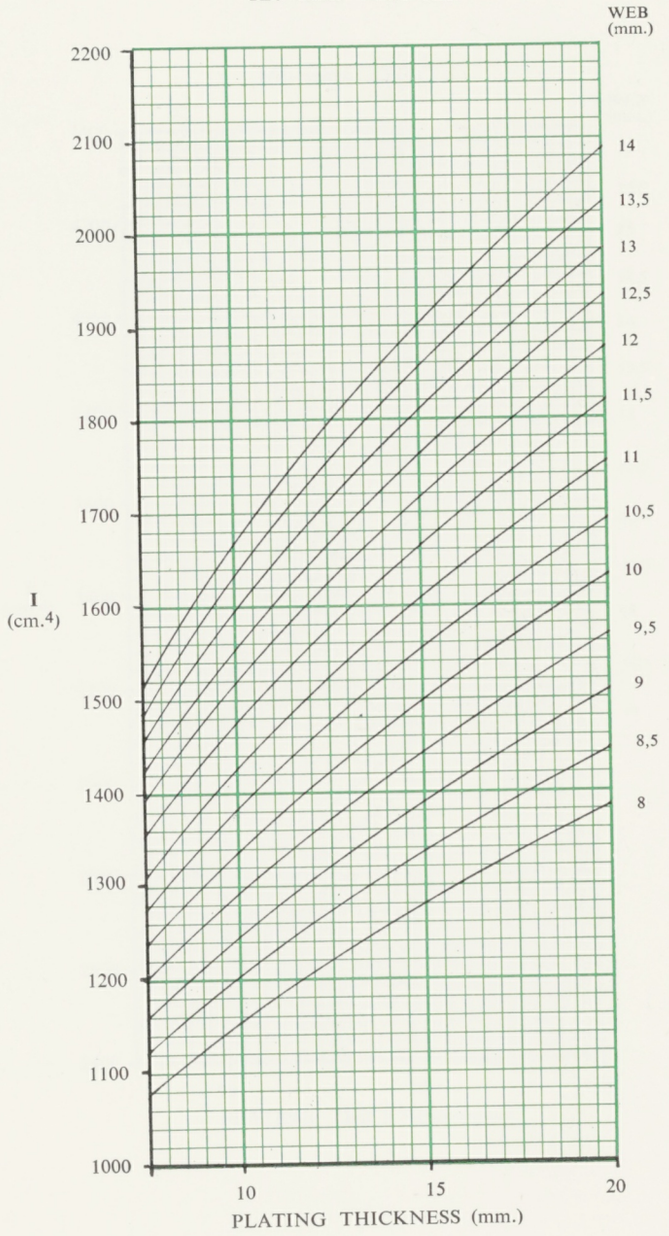


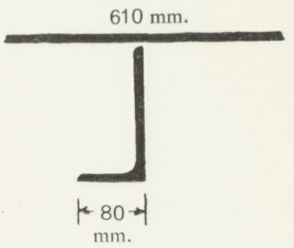
80 mm. FLANGE

120 mm. DEPTH



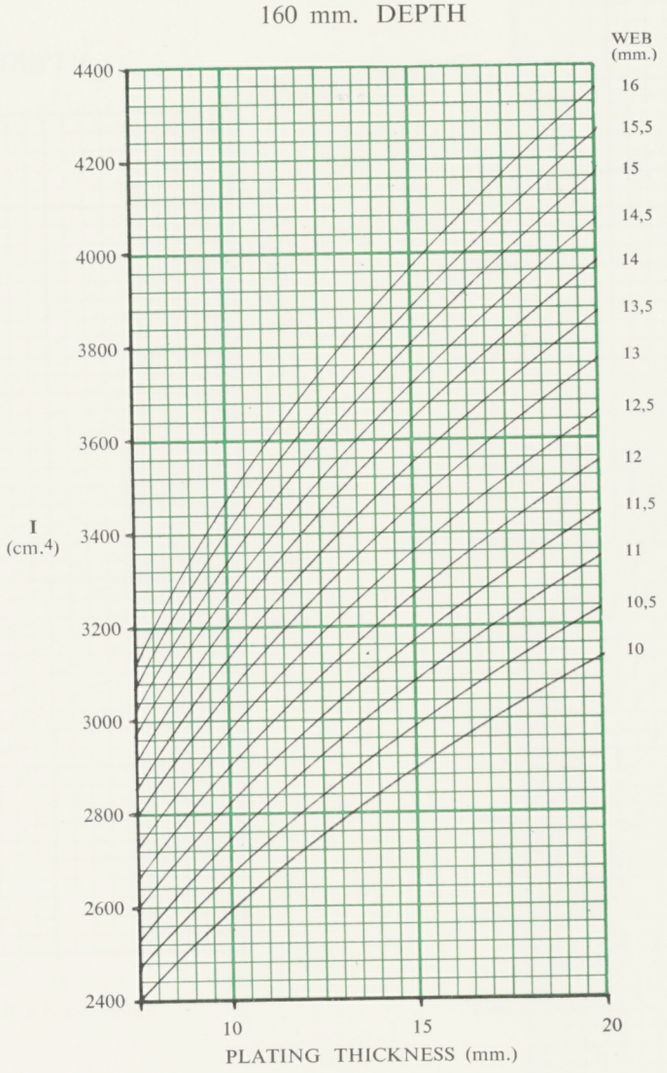
MOMENT OF INERTIA OF INVERTED ANGLES

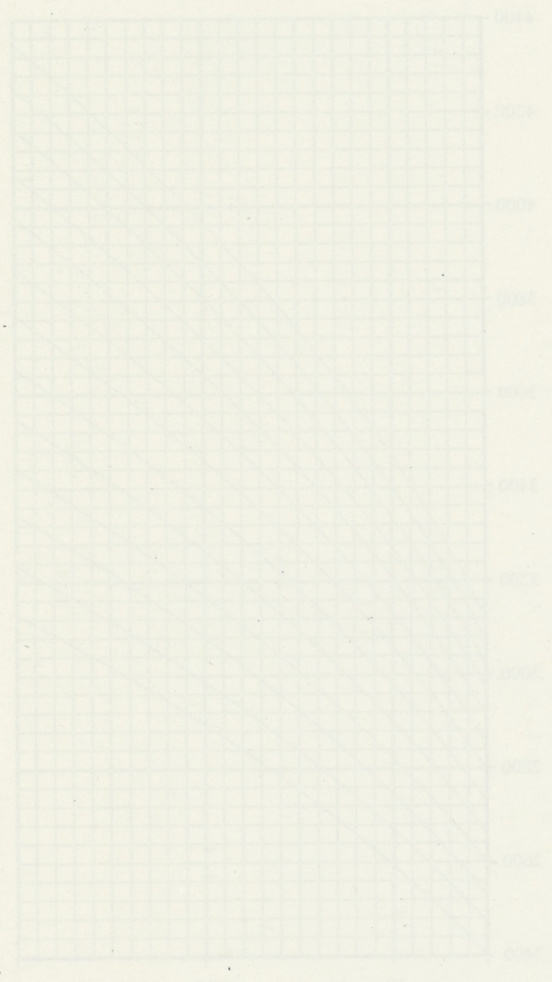
(WITH PLATING)



80 mm. FLANGE

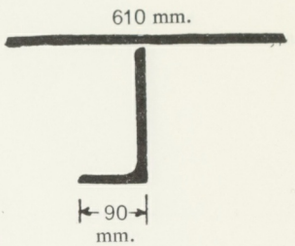
160 mm. DEPTH





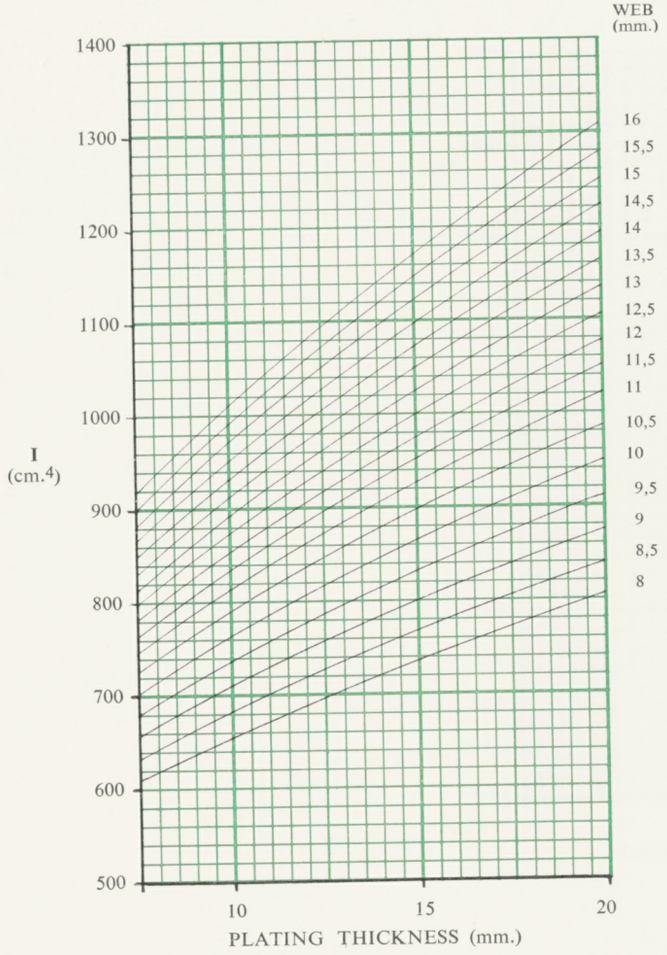
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

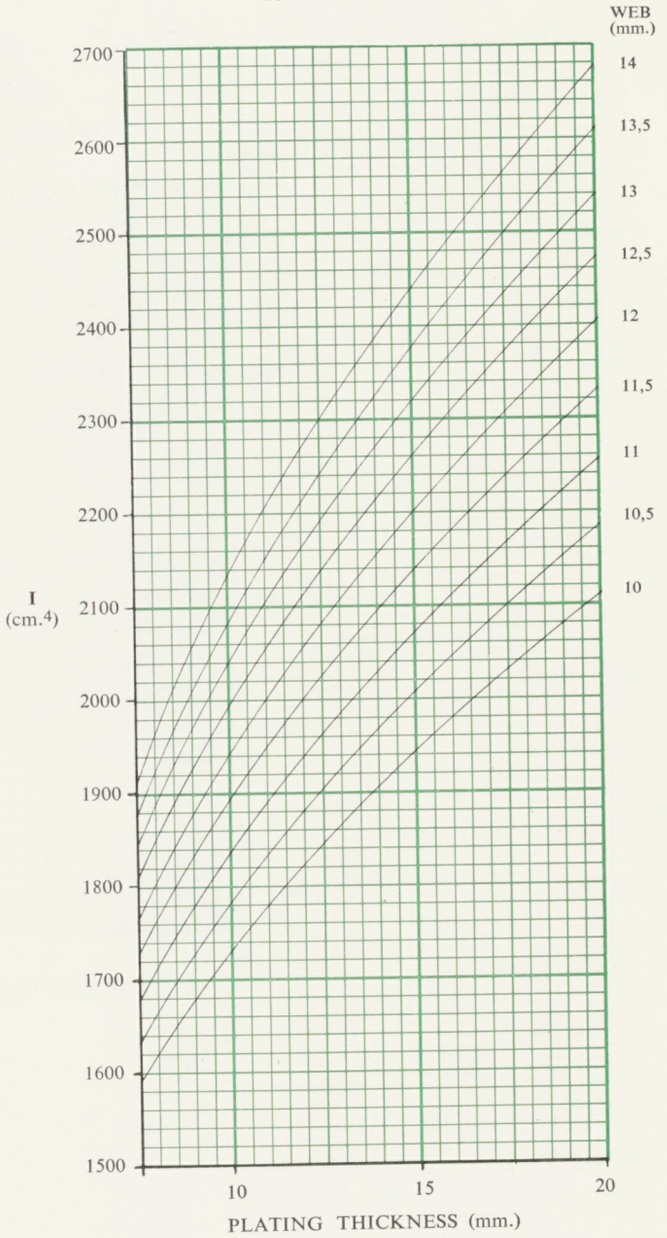


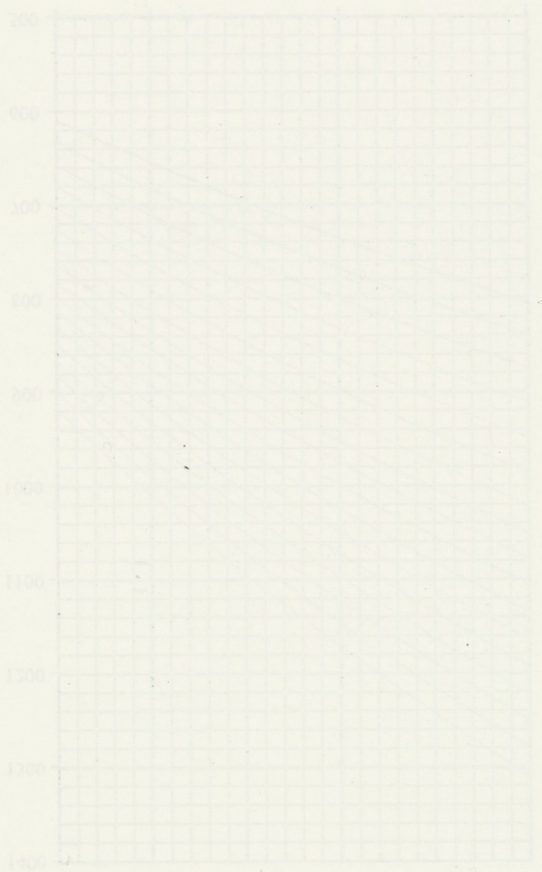
90 mm. FLANGE

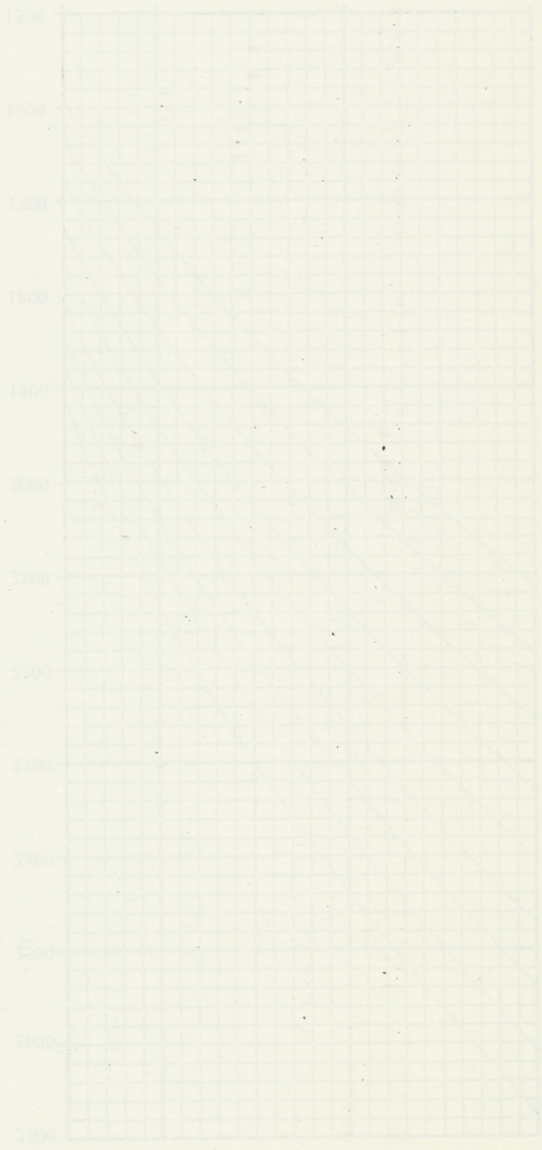
90 mm. DEPTH



130 mm. DEPTH

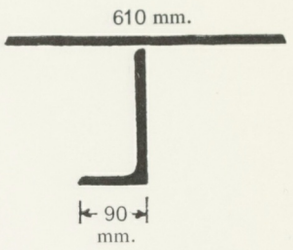






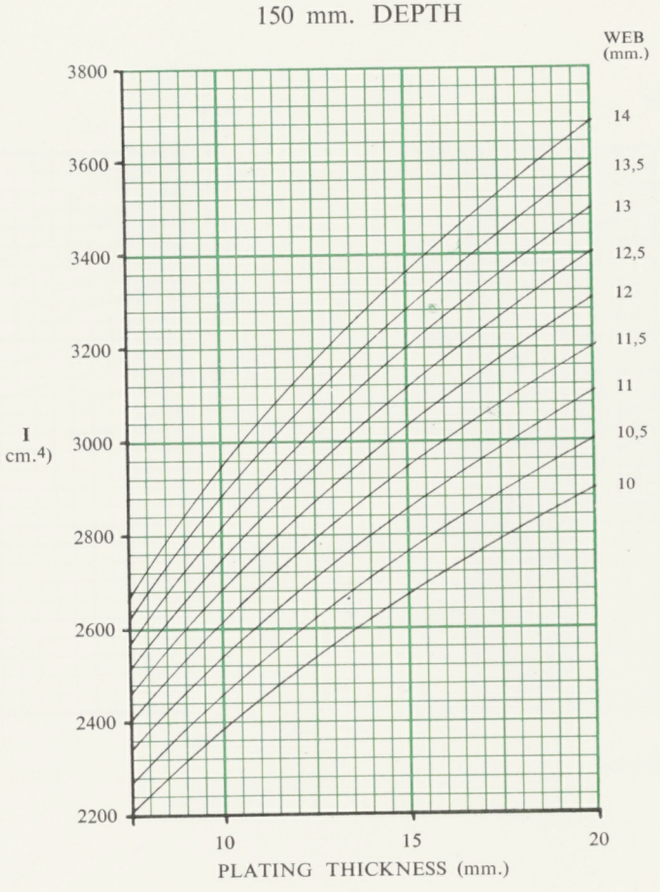
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)



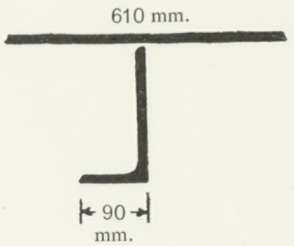
90 mm. FLANGE

150 mm. DEPTH



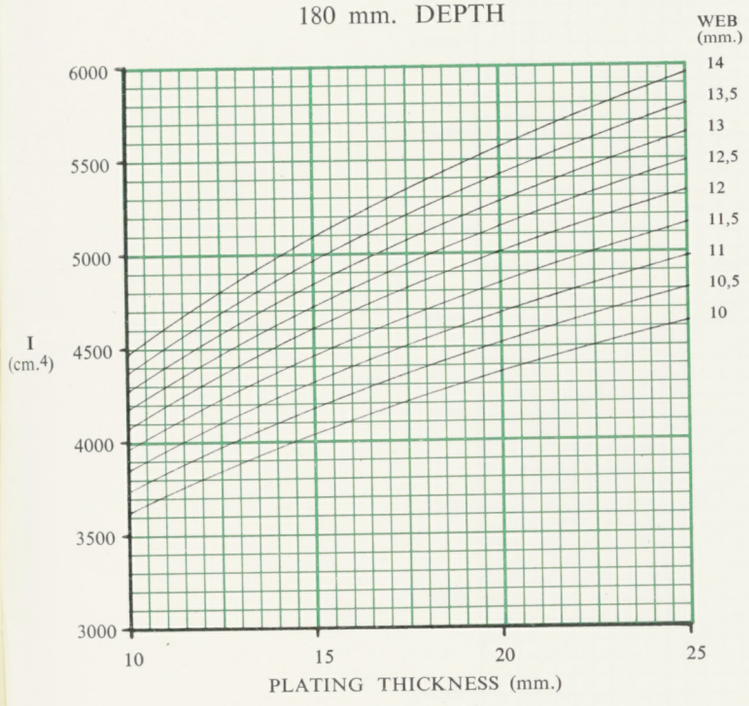
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

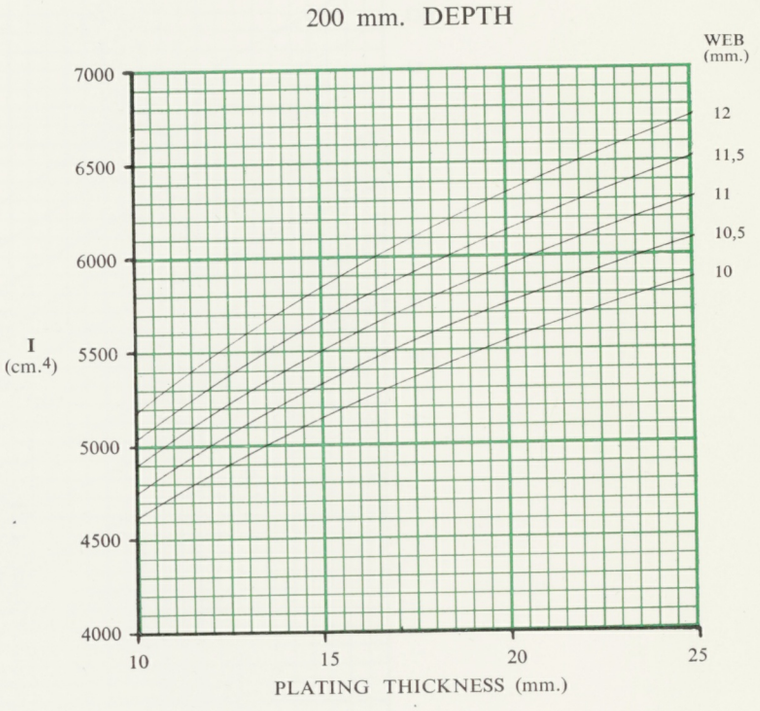


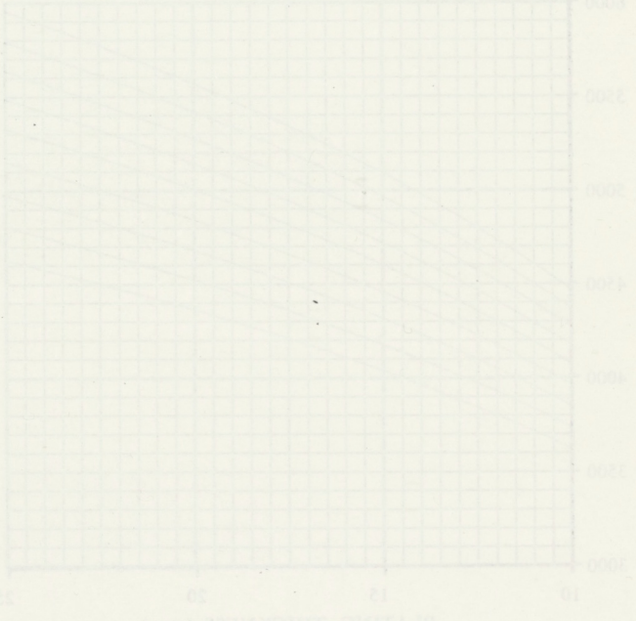
90 mm. FLANGE

180 mm. DEPTH



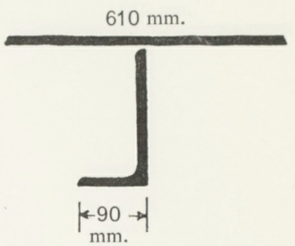
200 mm. DEPTH



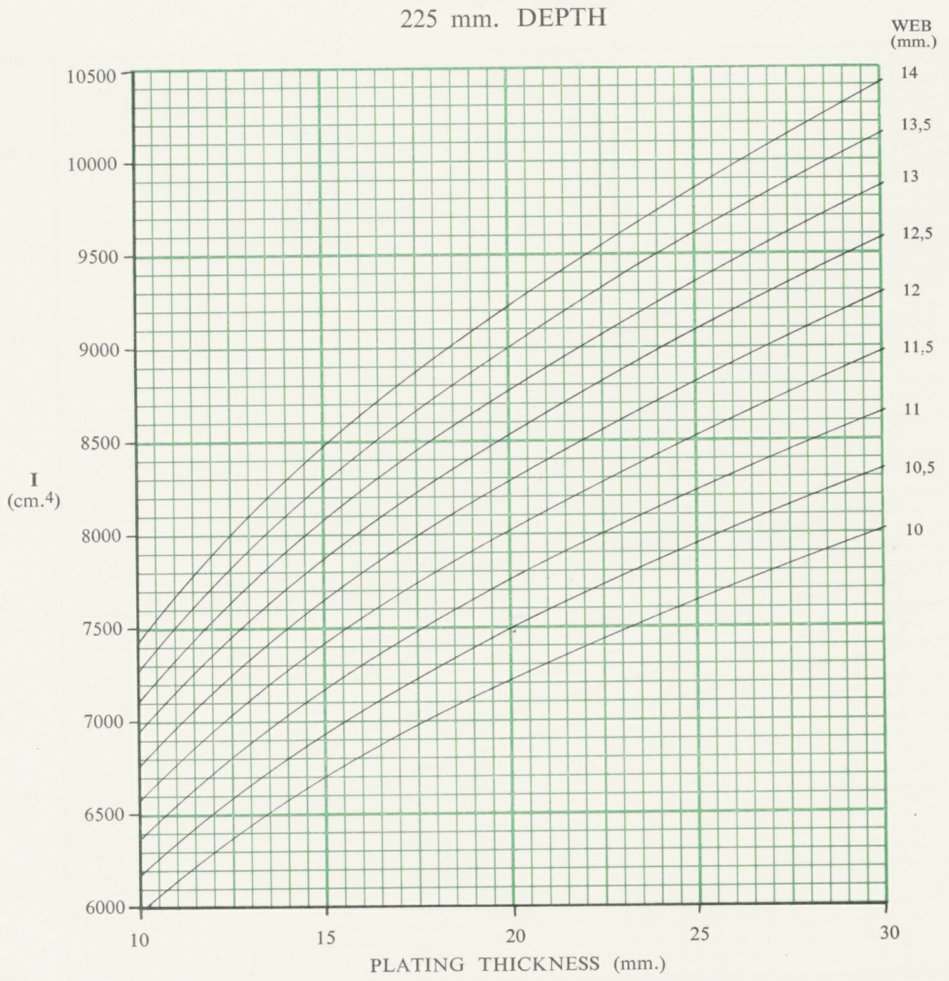


MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)



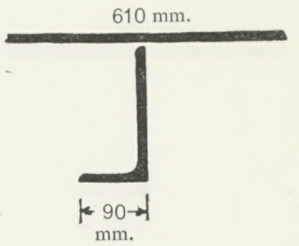
90 mm. FLANGE



X

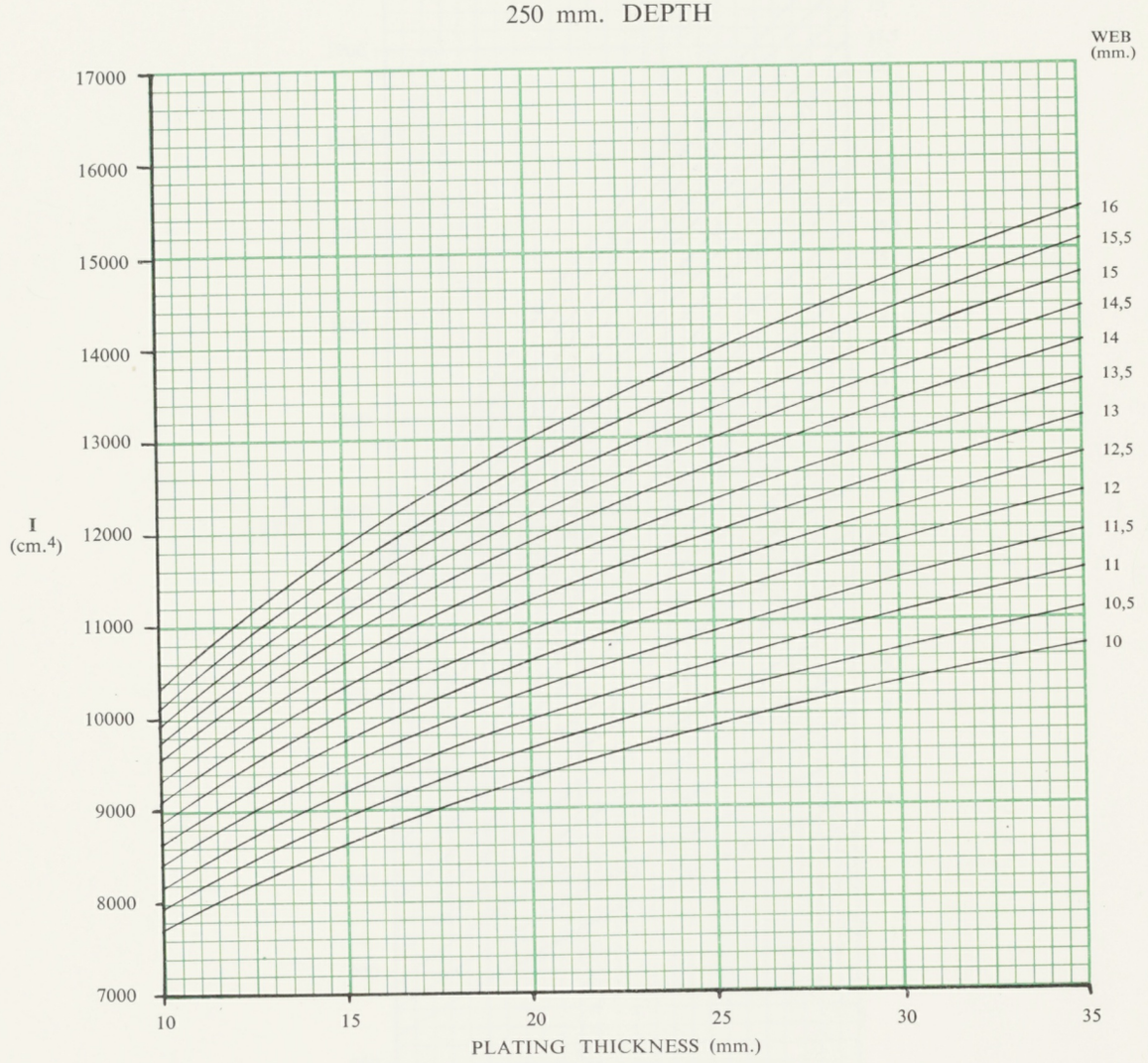
MOMENT OF INERTIA OF INVERTED ANGLES

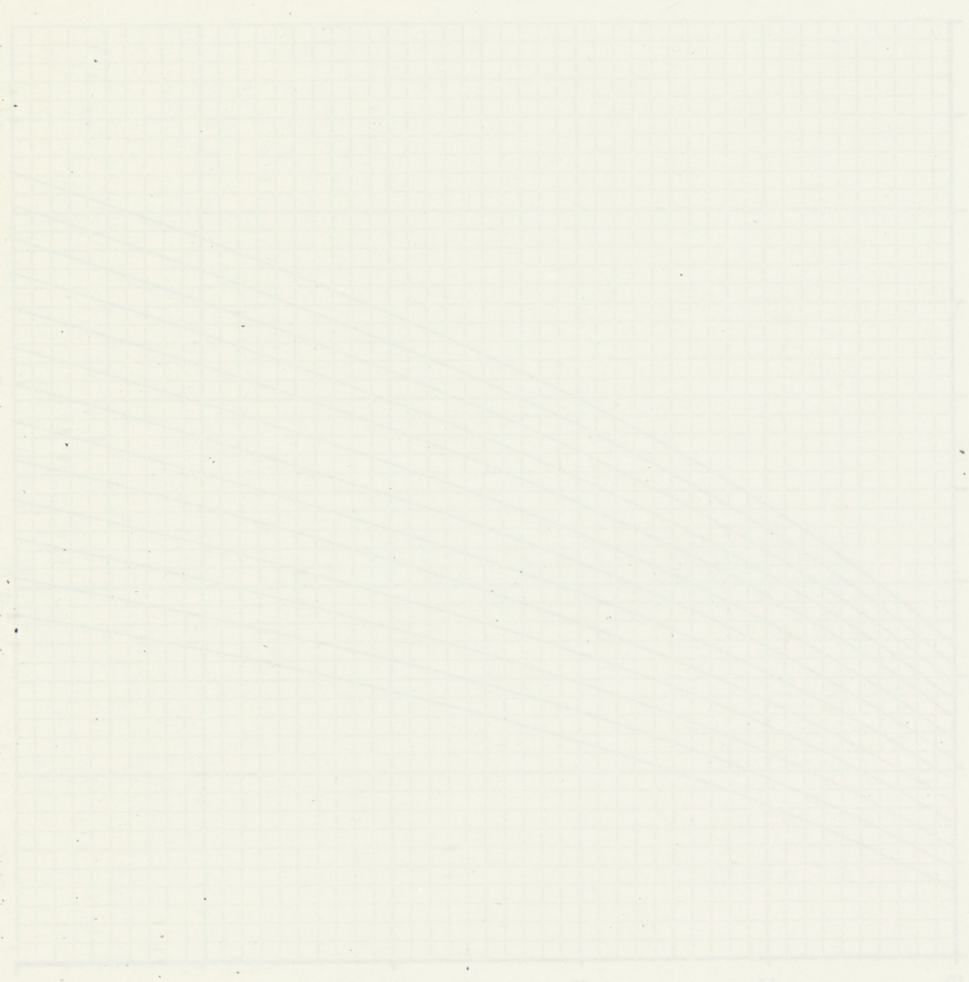
(WITH PLATING)



90 mm. FLANGE

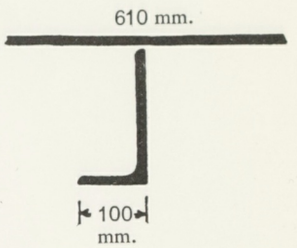
250 mm. DEPTH





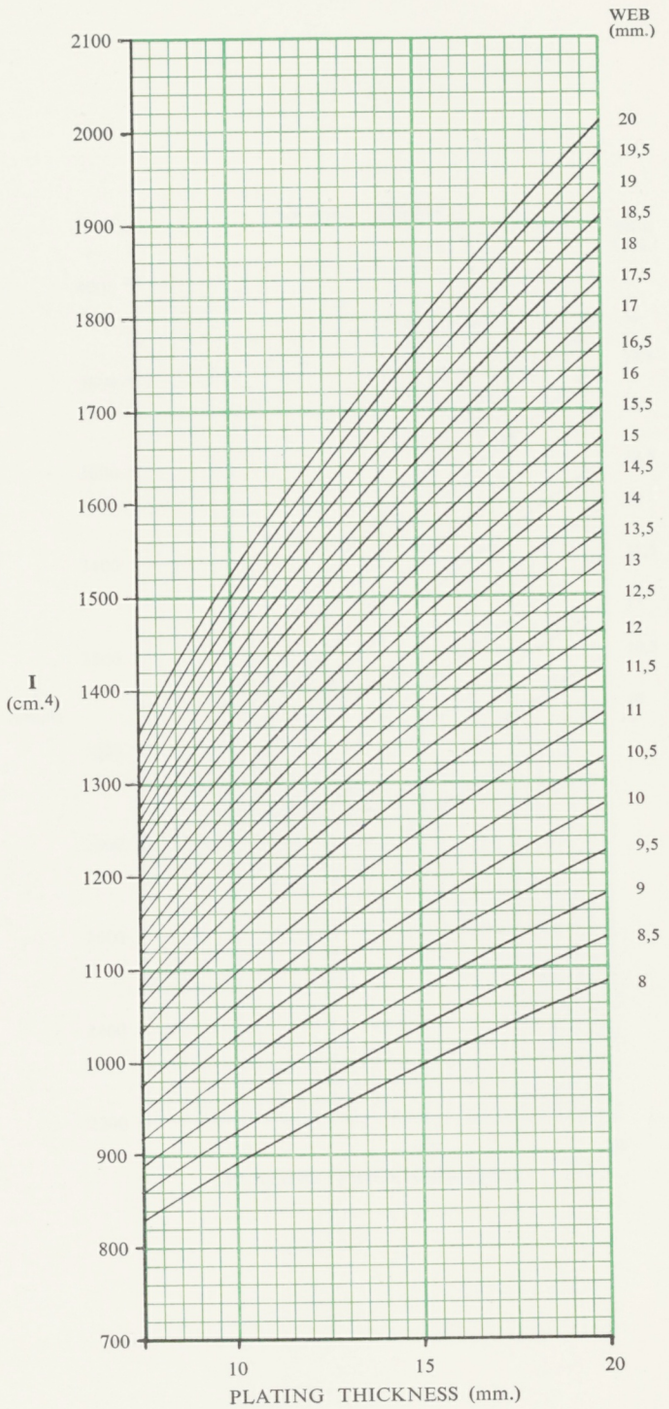
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)



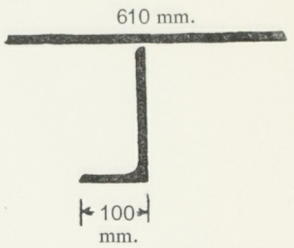
100 mm. FLANGE

100 mm. DEPTH

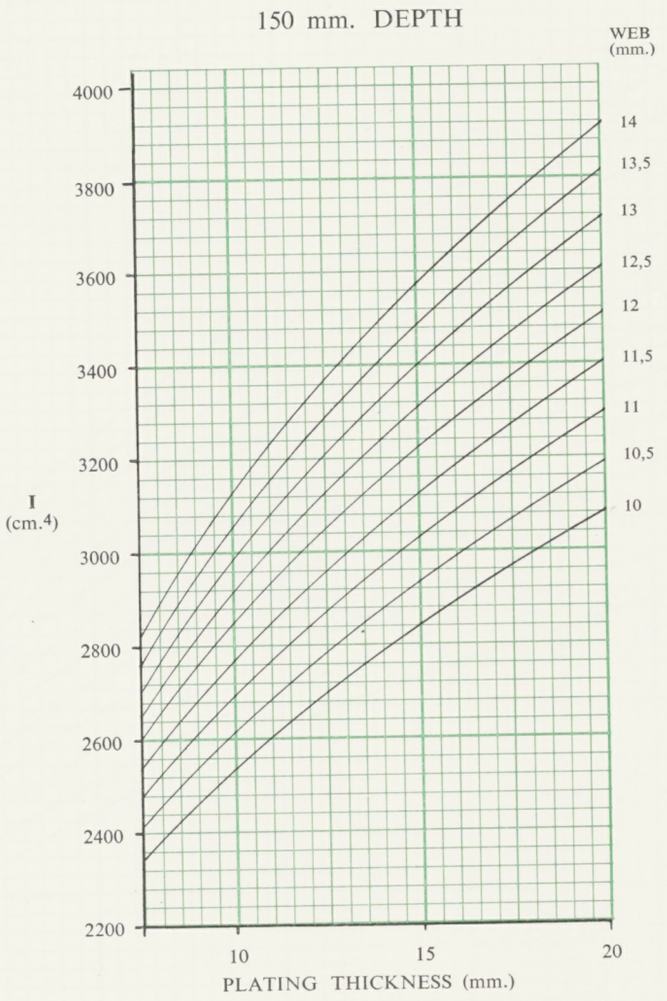


MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)



100 mm. FLANGE



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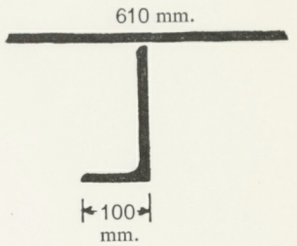
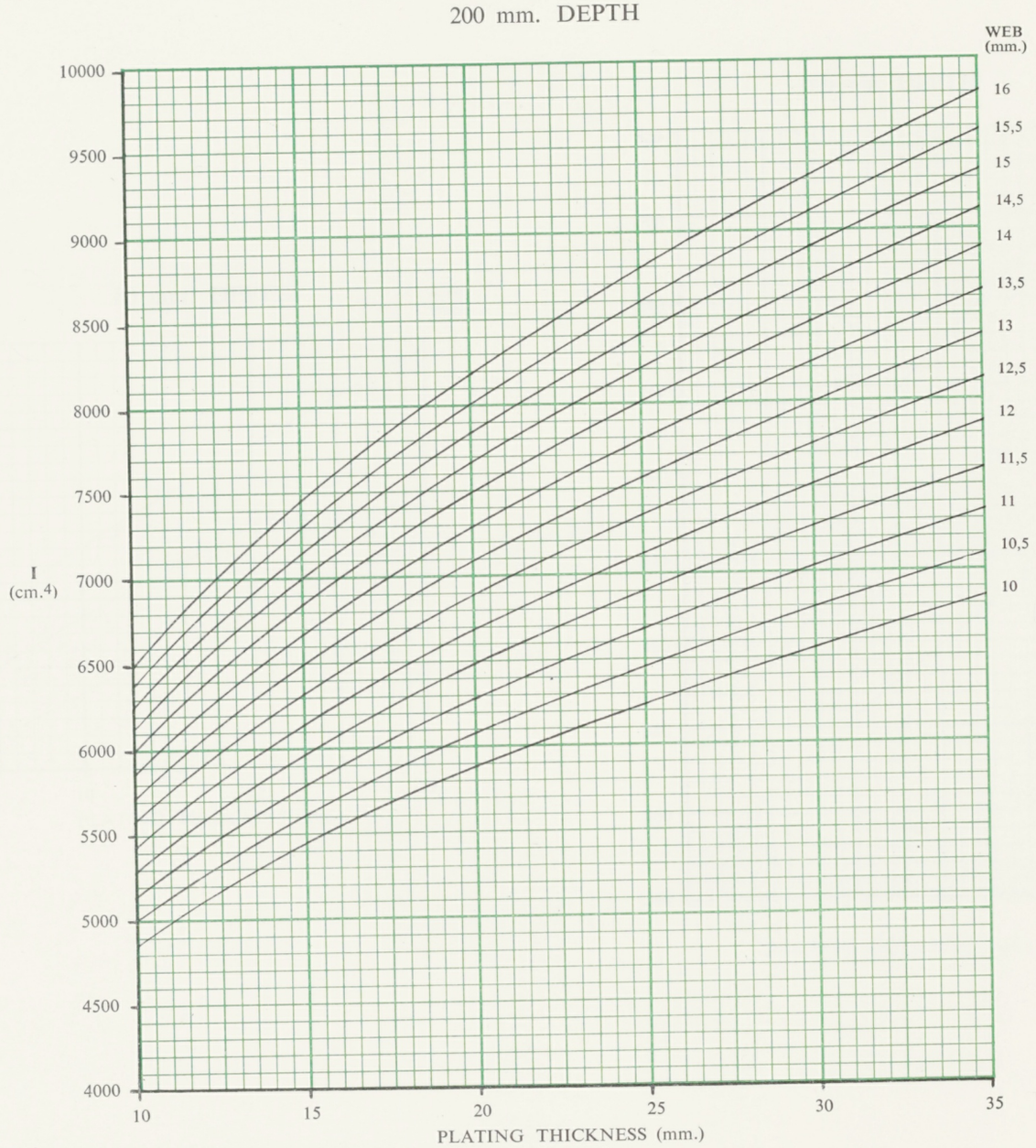
(WITH PLATING)



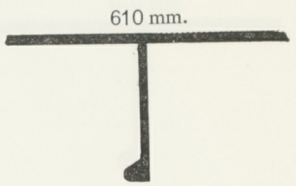
100 mm. FLANGE

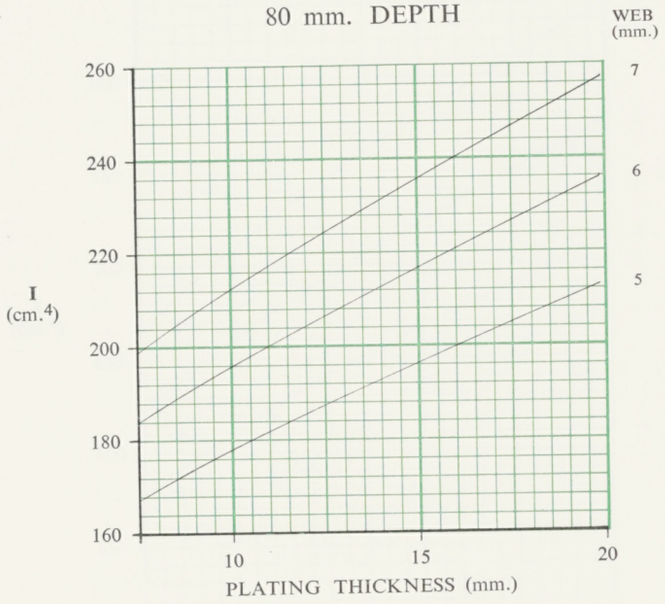
200 mm. DEPTH

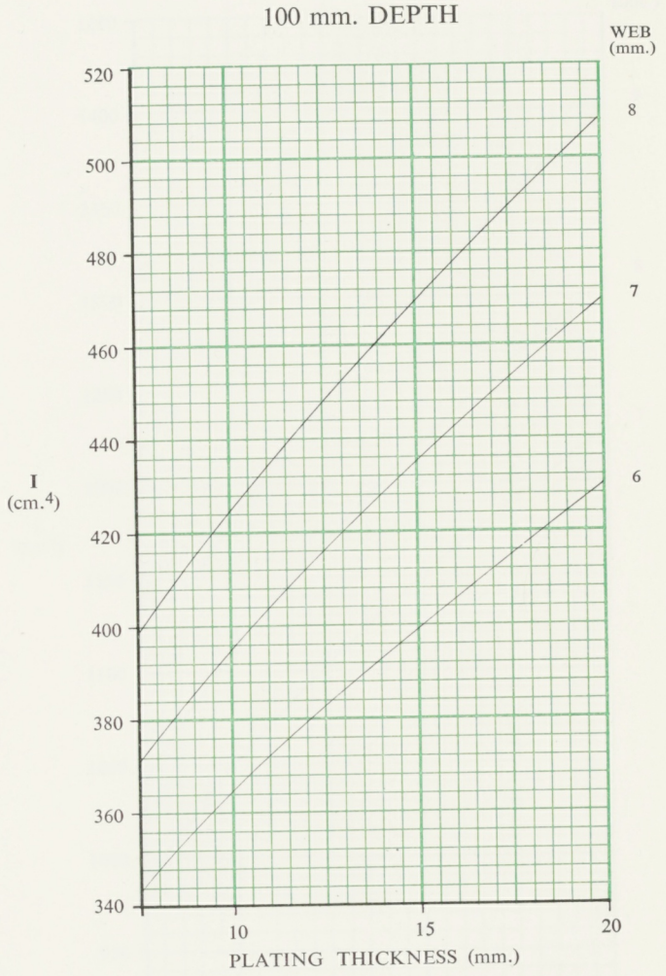


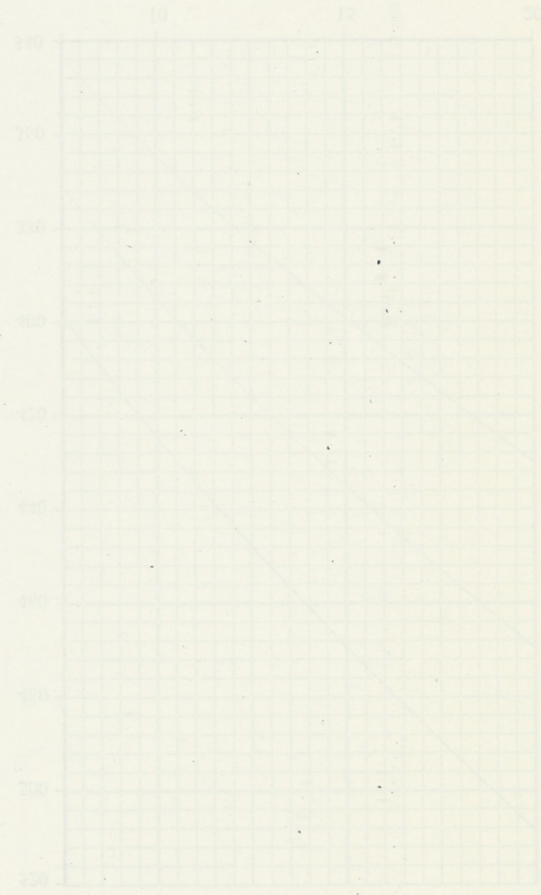
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES (H.P.)

(WITH PLATING)



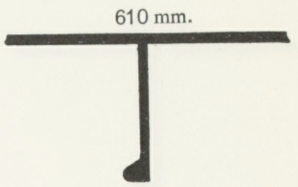




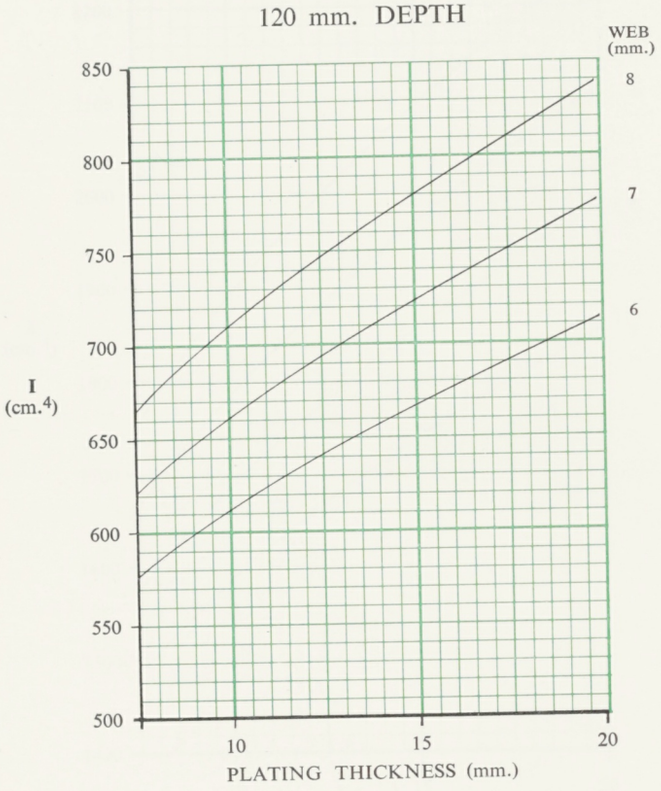


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES (H.P.)

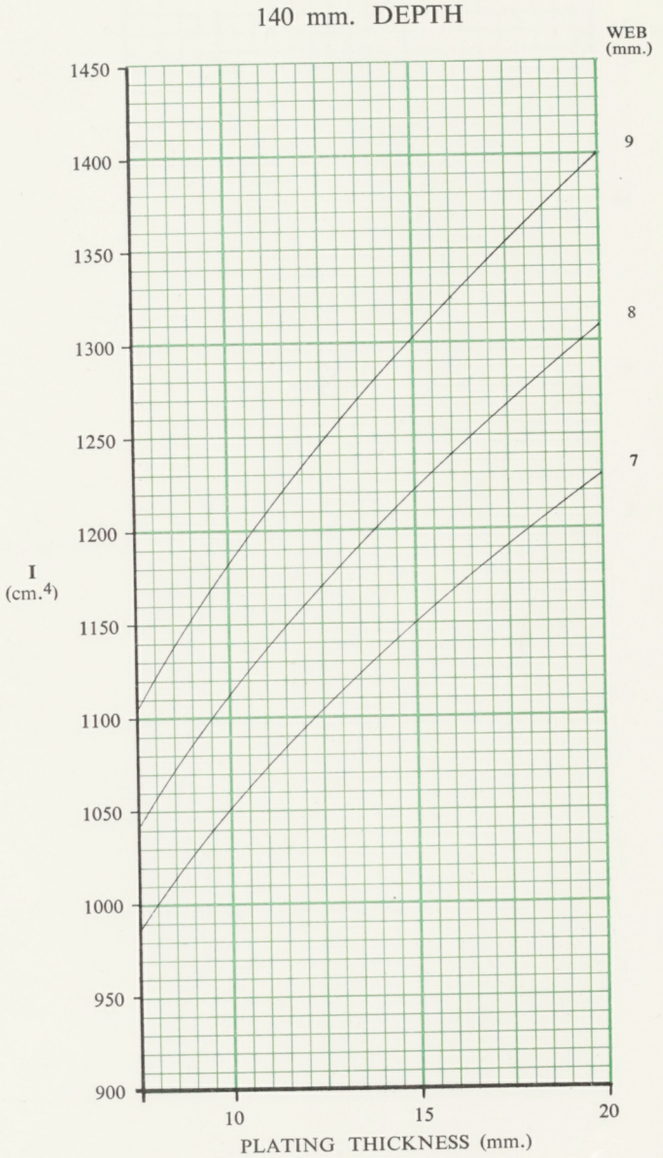
(WITH PLATING)

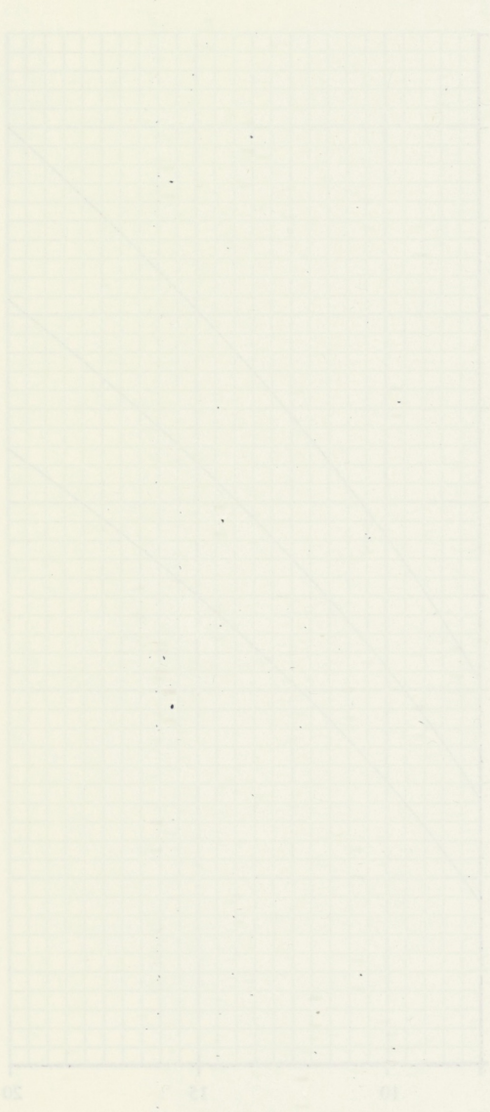


120 mm. DEPTH



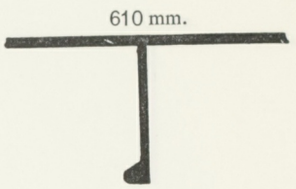
140 mm. DEPTH



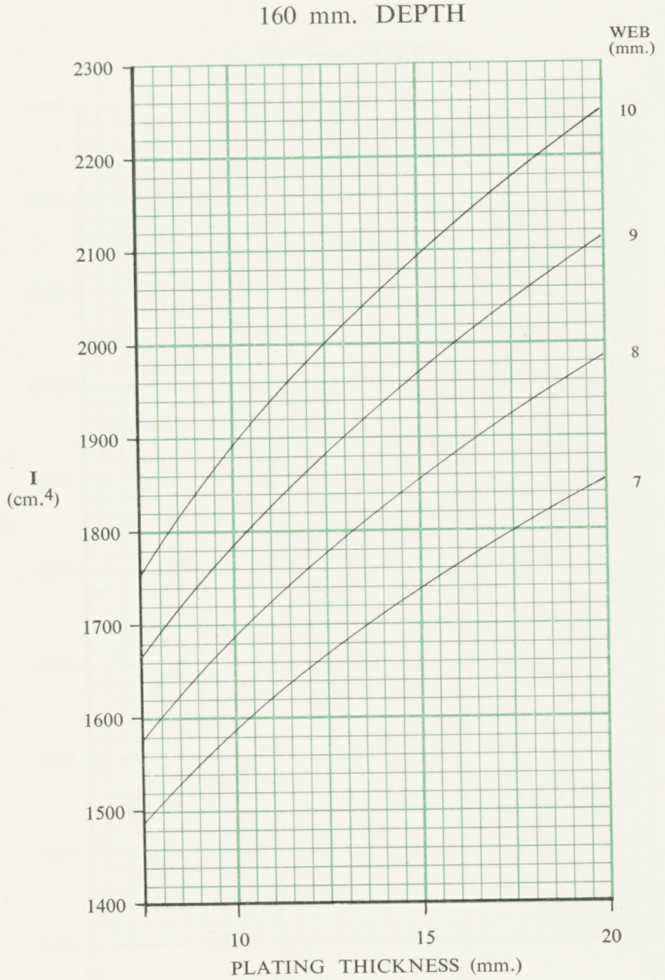


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES (H.P.)

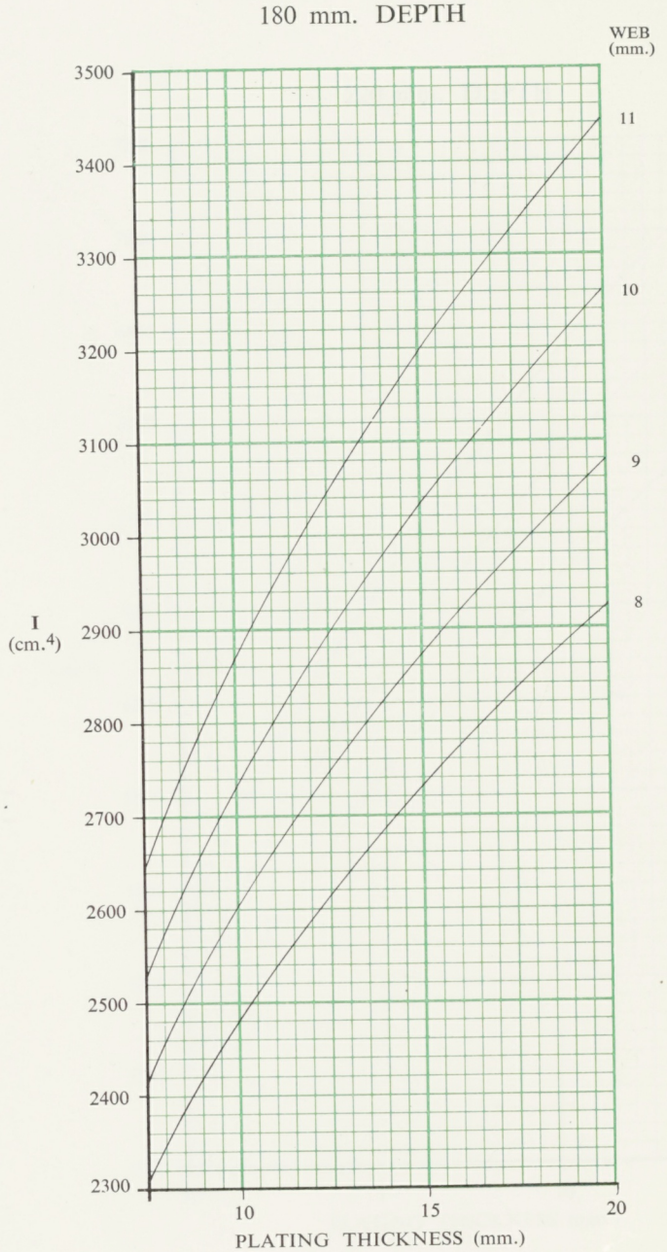
(WITH PLATING)

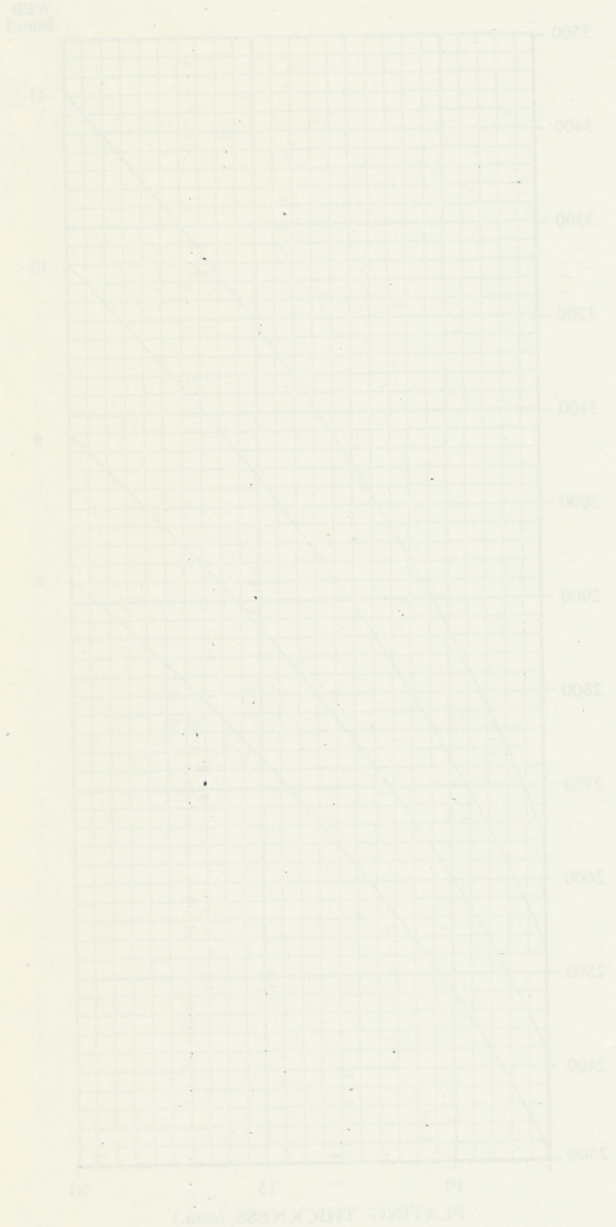


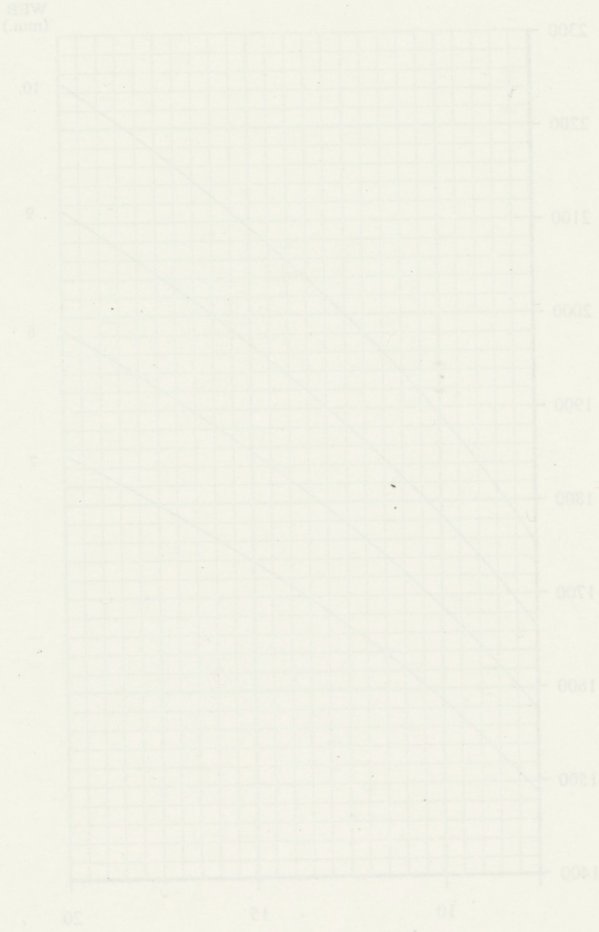
160 mm. DEPTH



180 mm. DEPTH

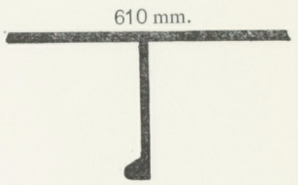




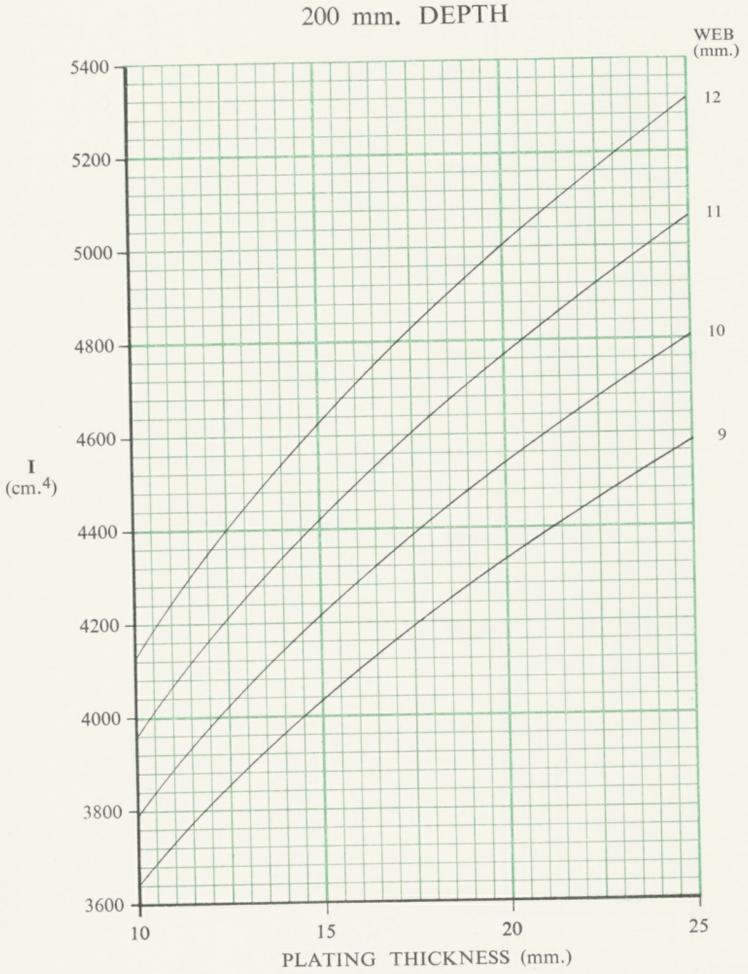


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES (H.P.)

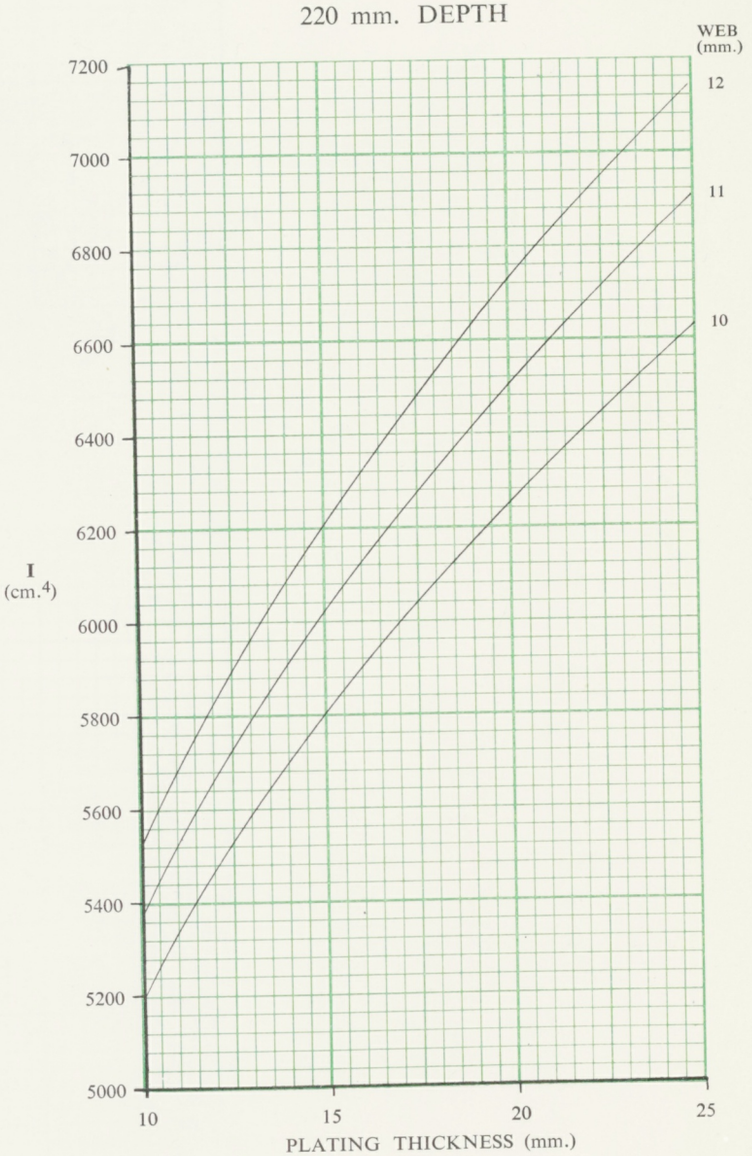
(WITH PLATING)



200 mm. DEPTH



220 mm. DEPTH



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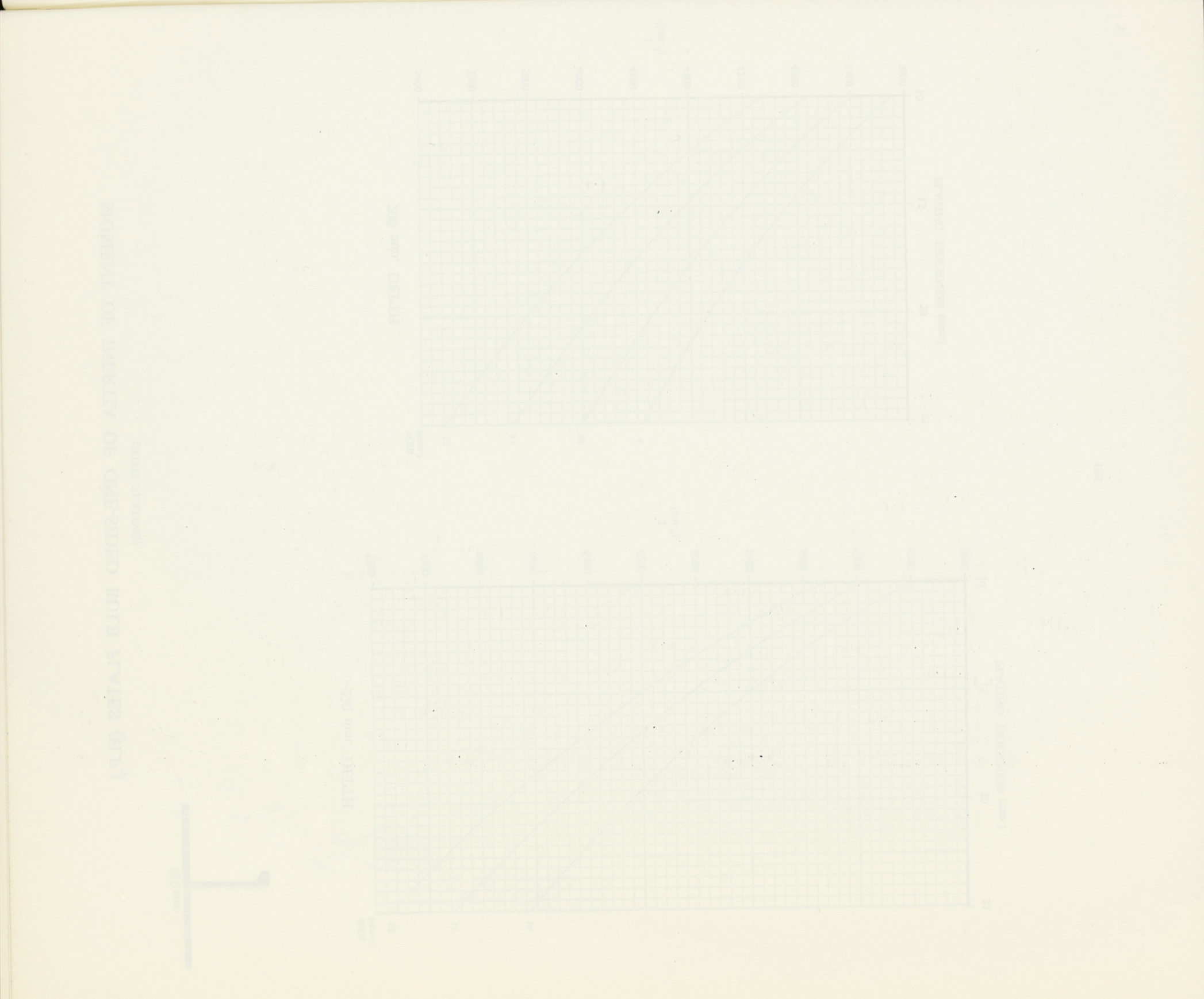
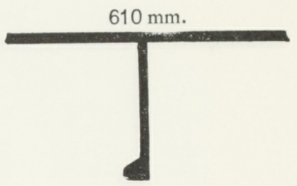
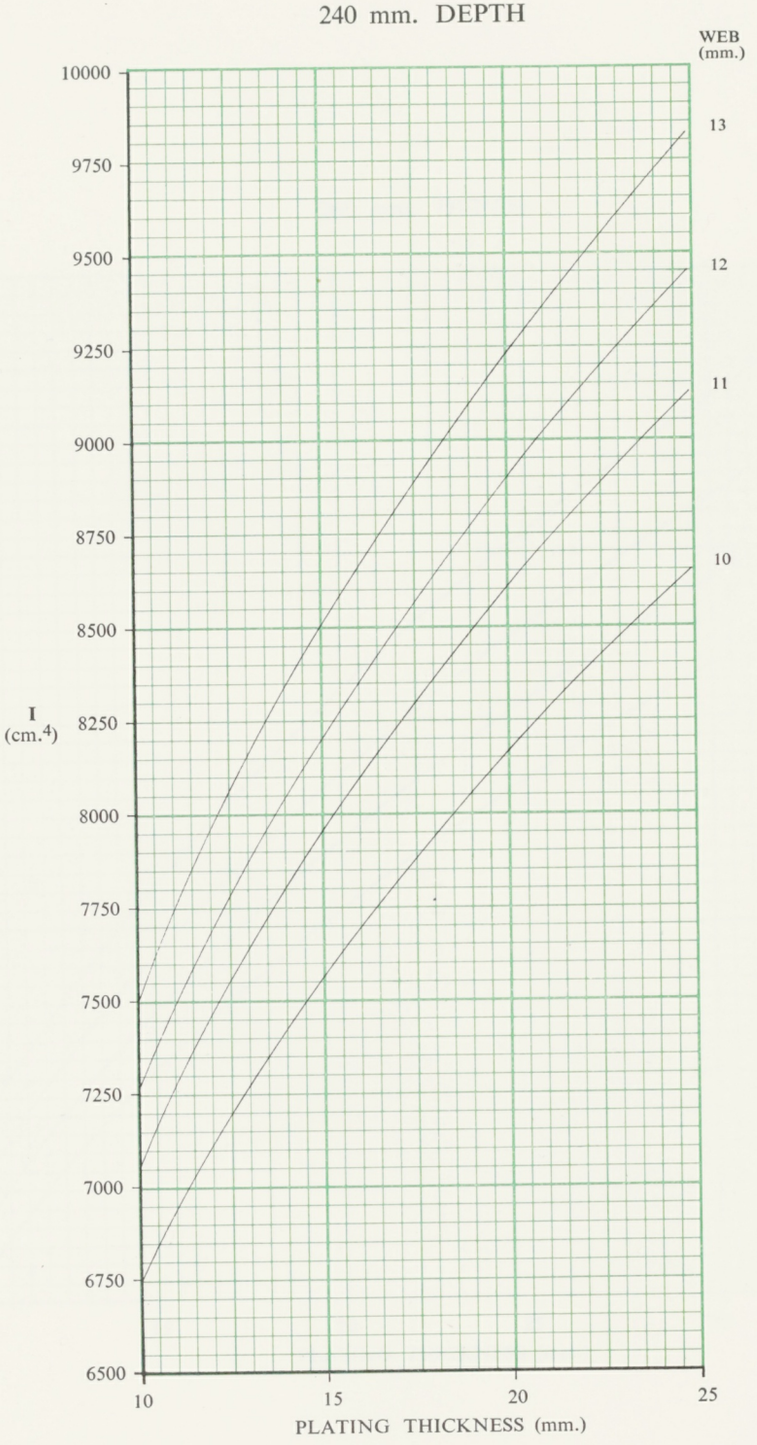


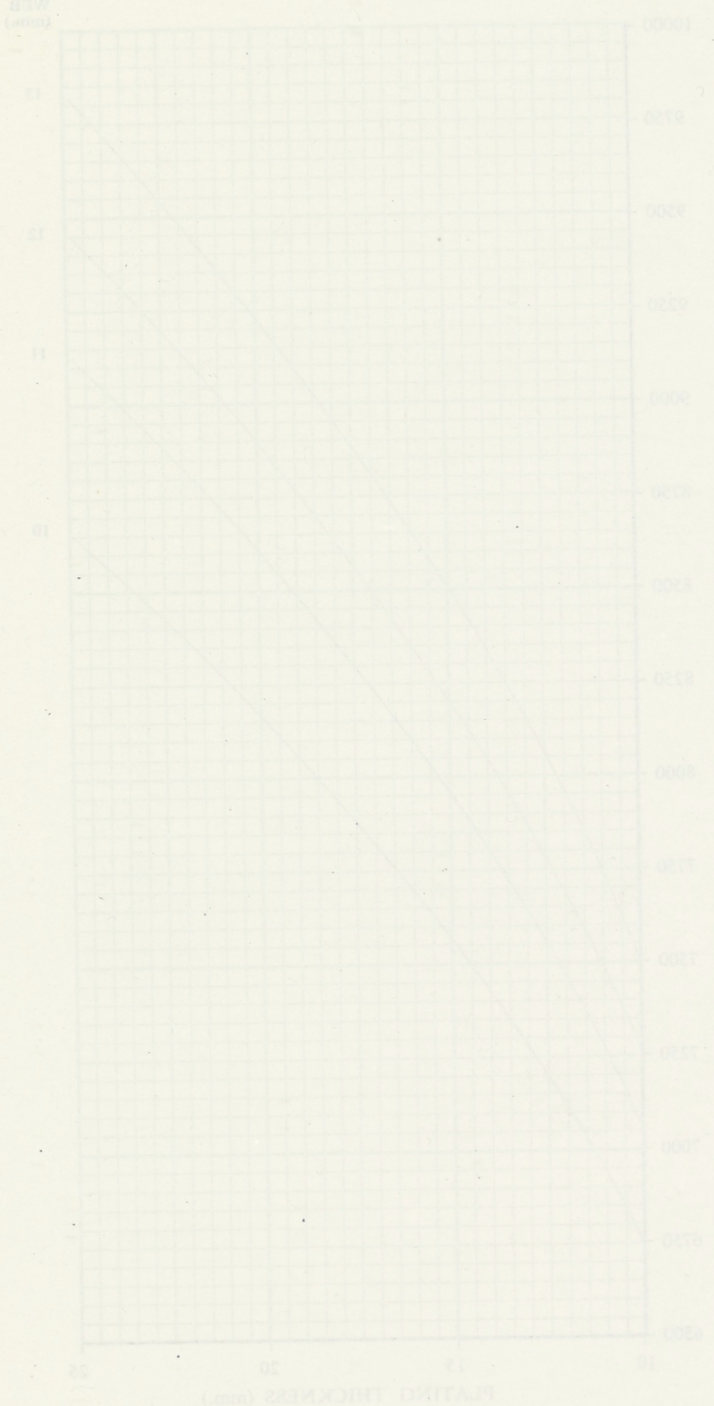
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES (H.P.)

(WITH PLATING)



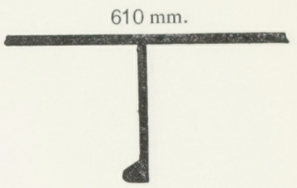
240 mm. DEPTH



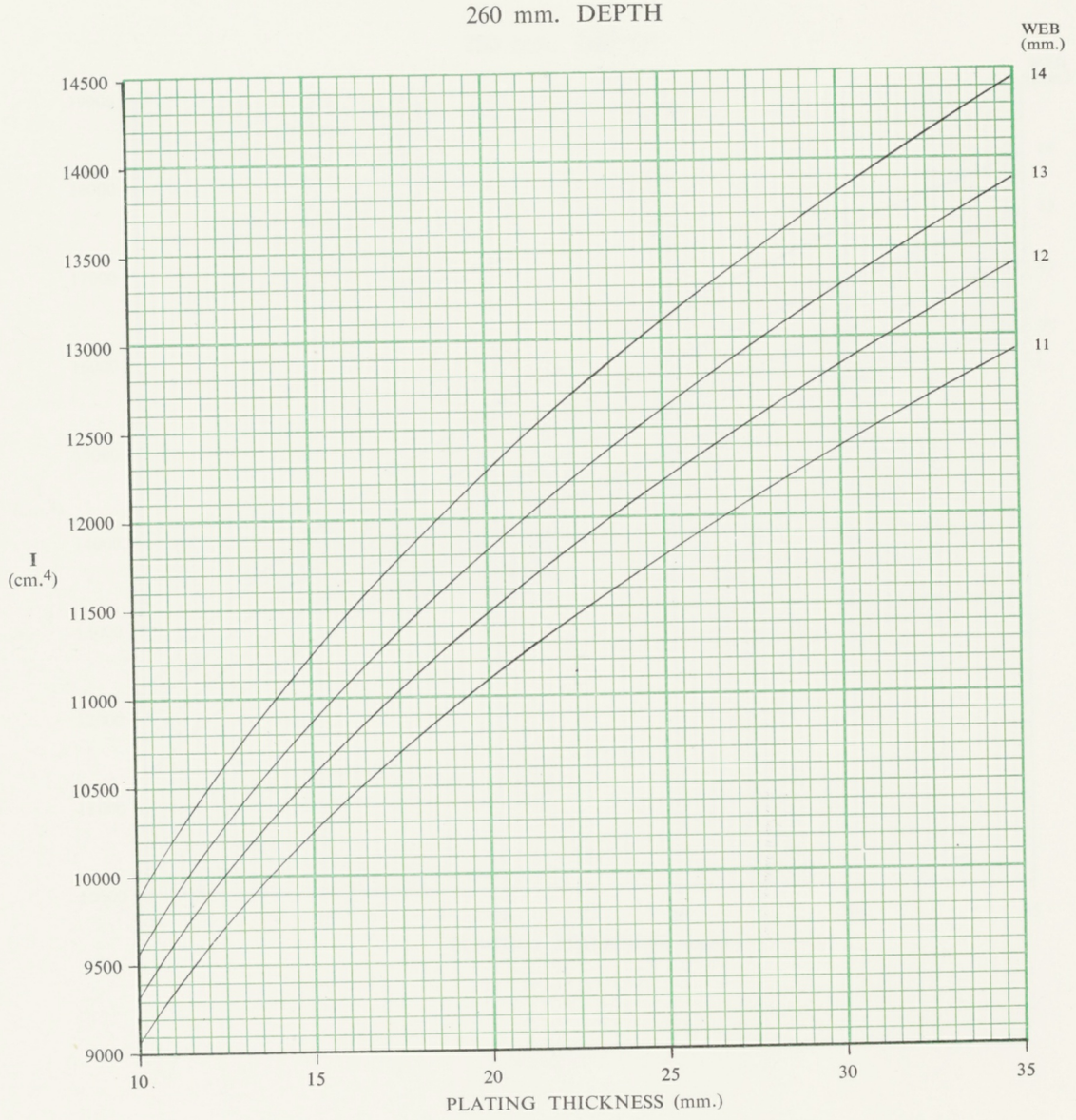


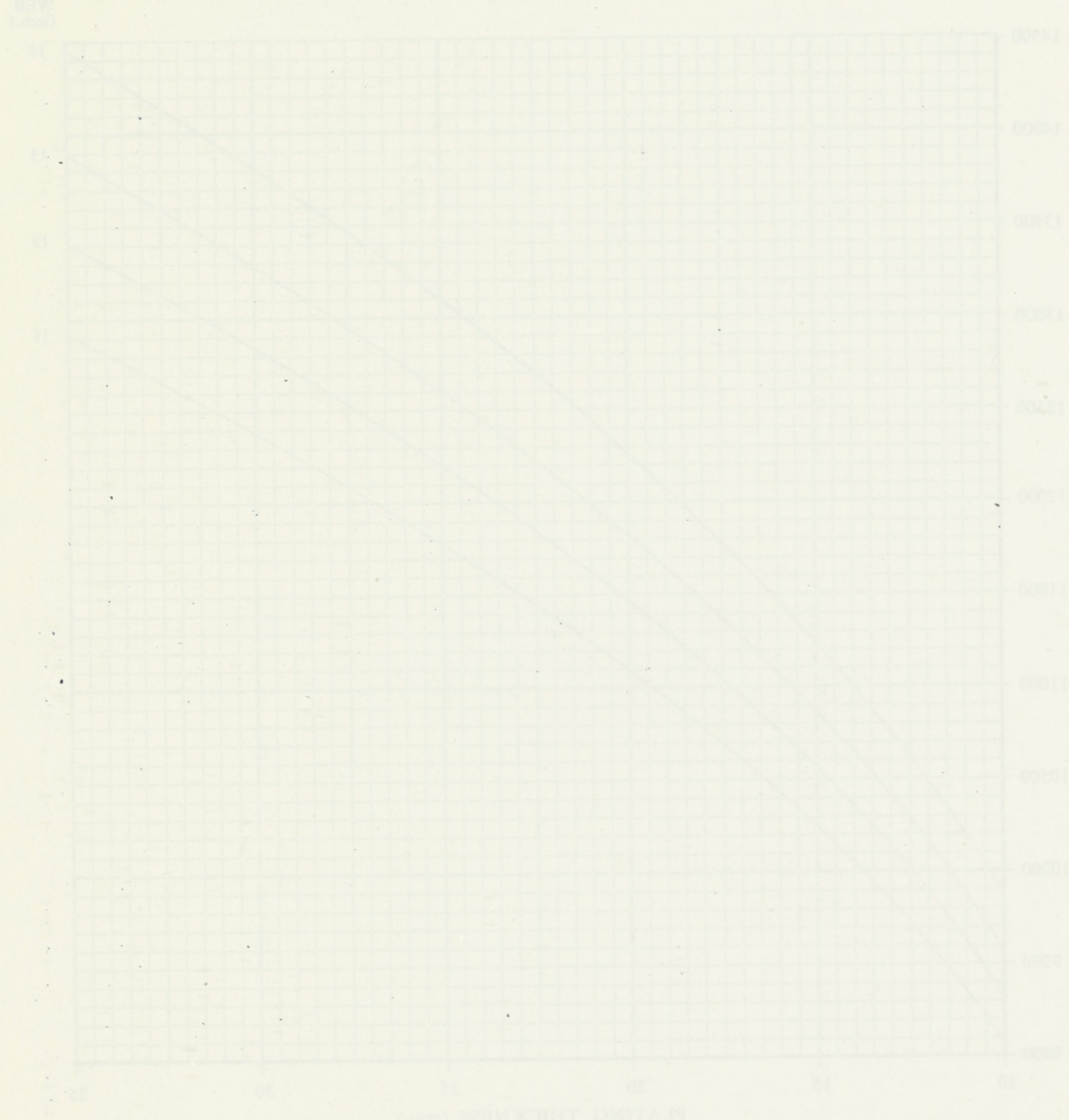
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES (H.P.)

(WITH PLATING)



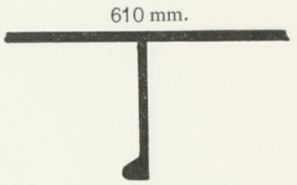
260 mm. DEPTH



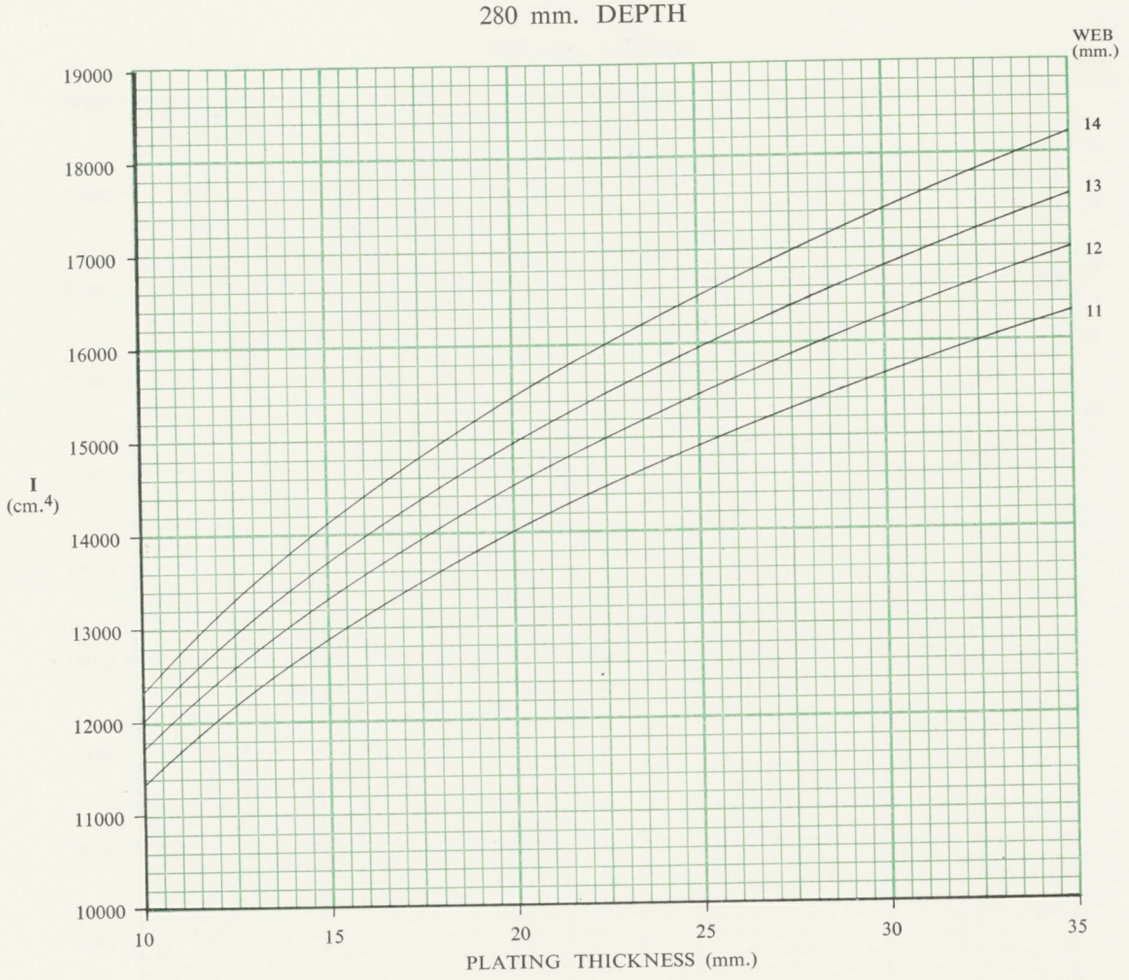


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES (H.P.)

(WITH PLATING)

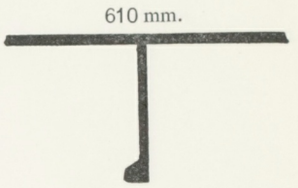


280 mm. DEPTH

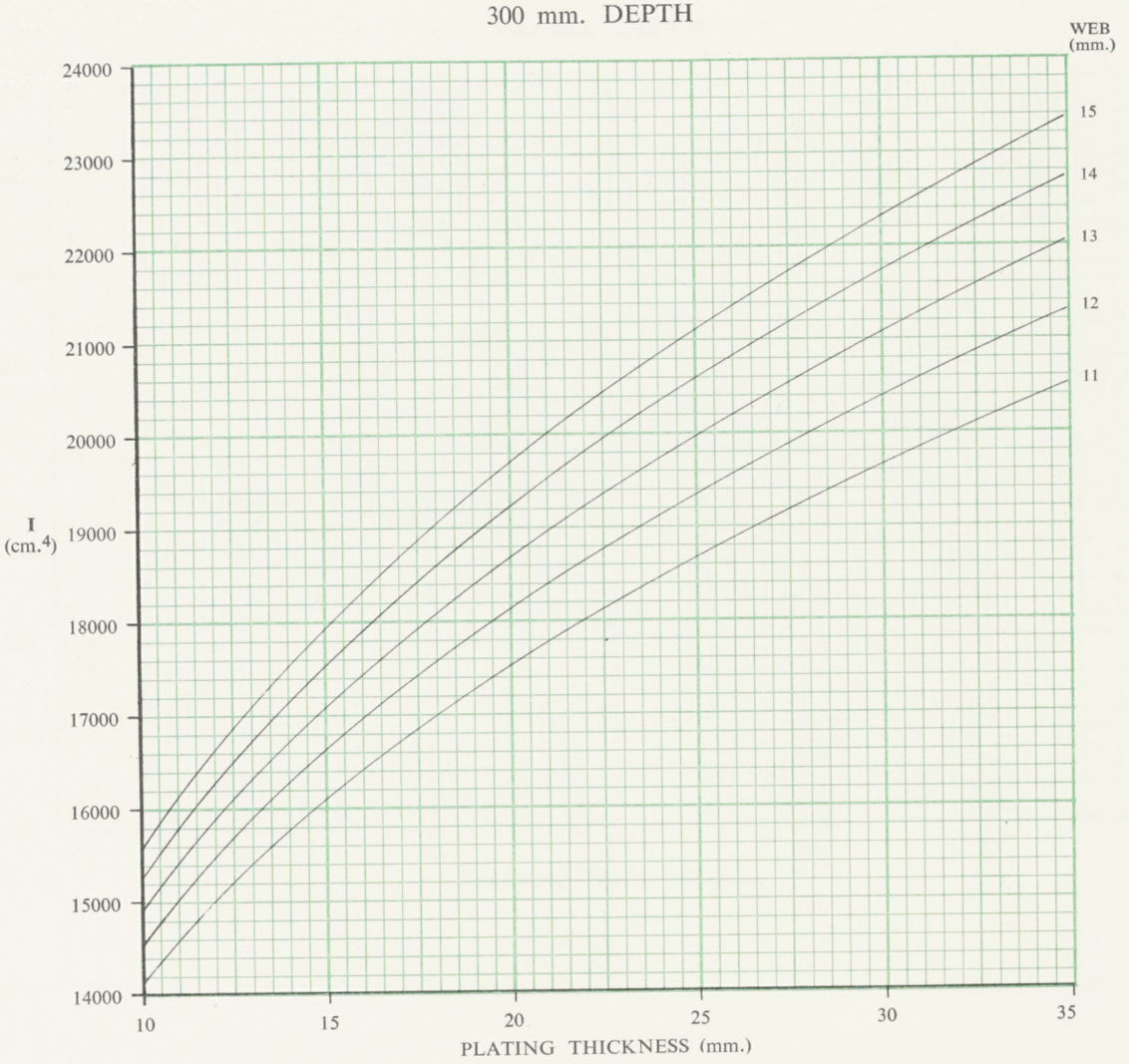


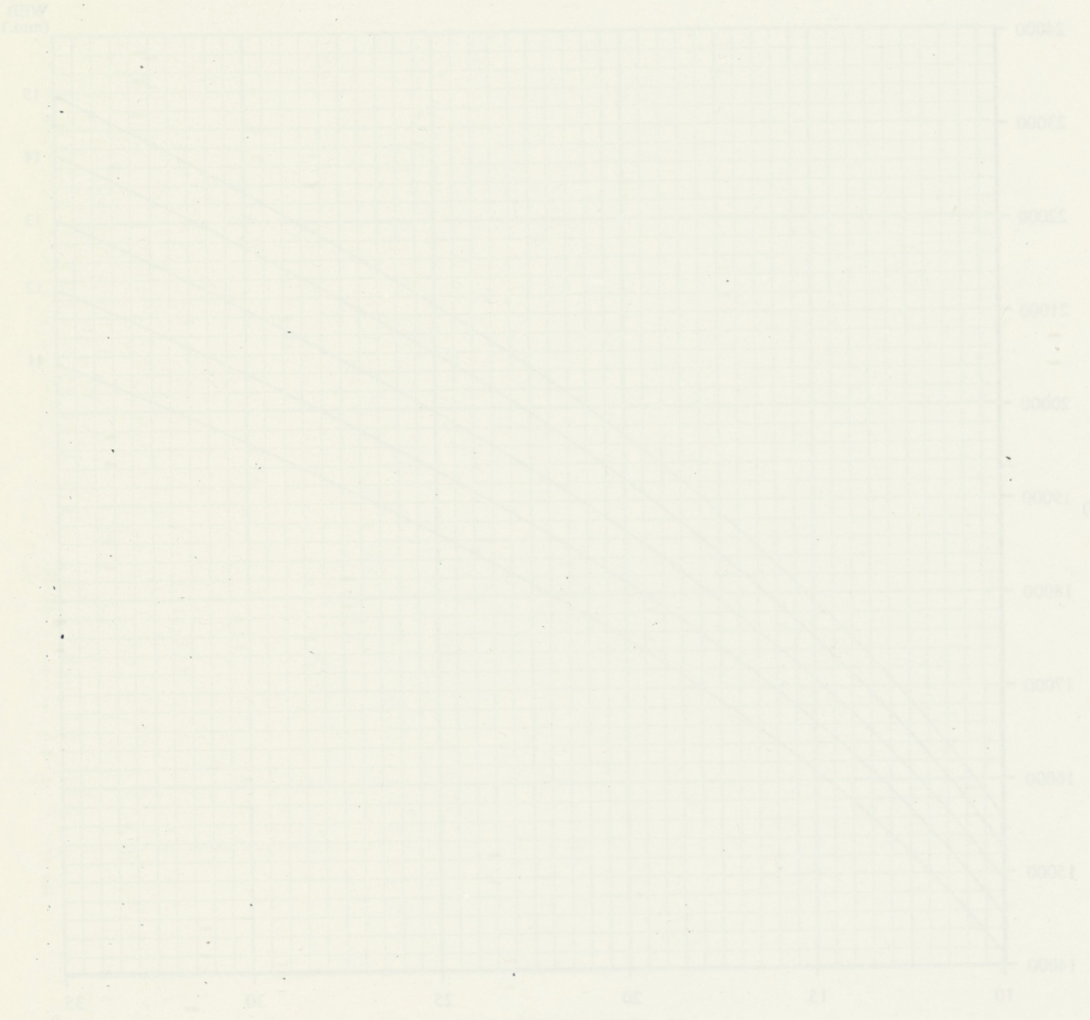
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES (H.P.)

(WITH PLATING)



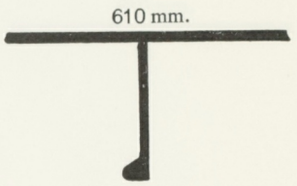
300 mm. DEPTH



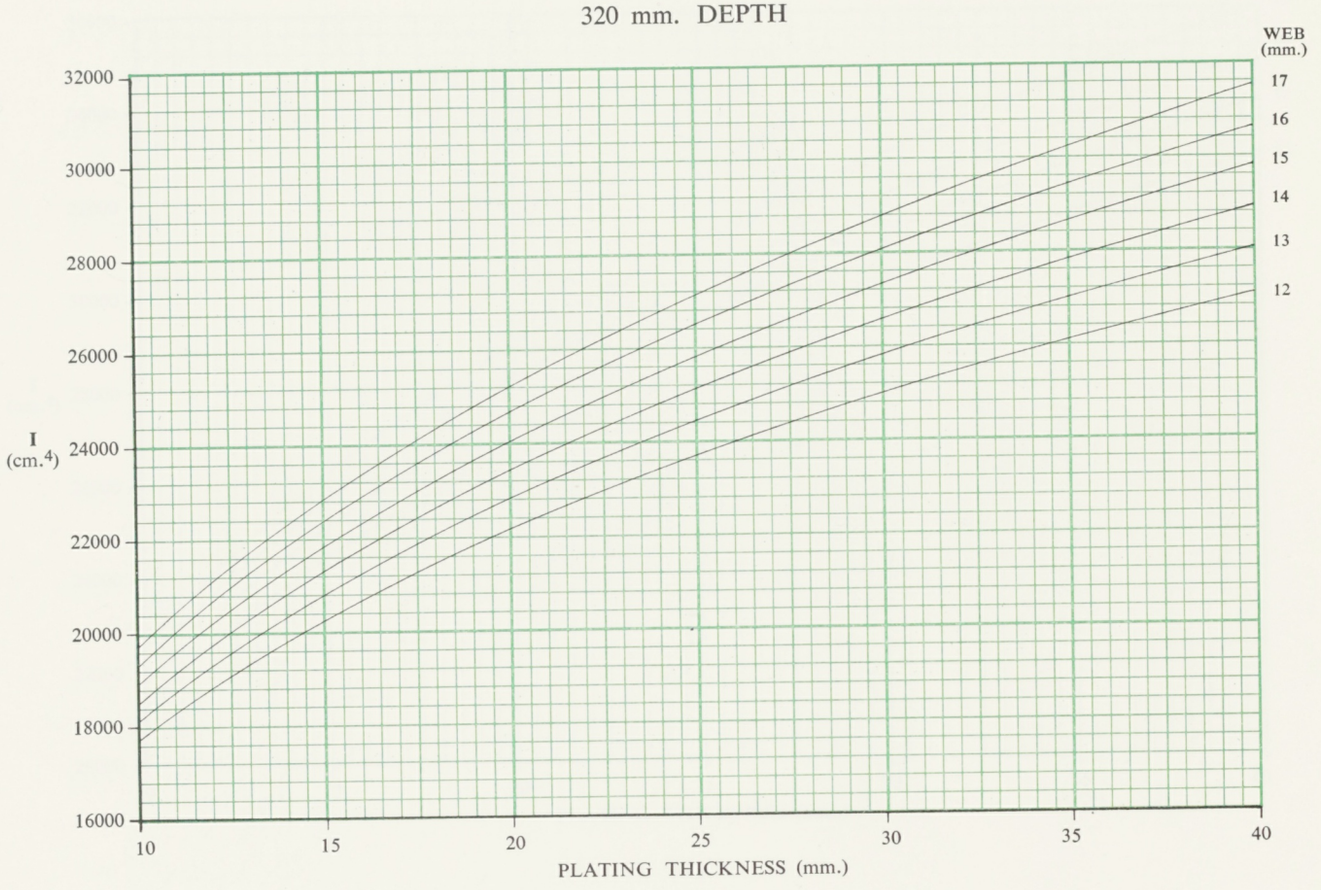


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES (H.P.)

(WITH PLATING)

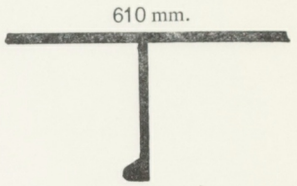


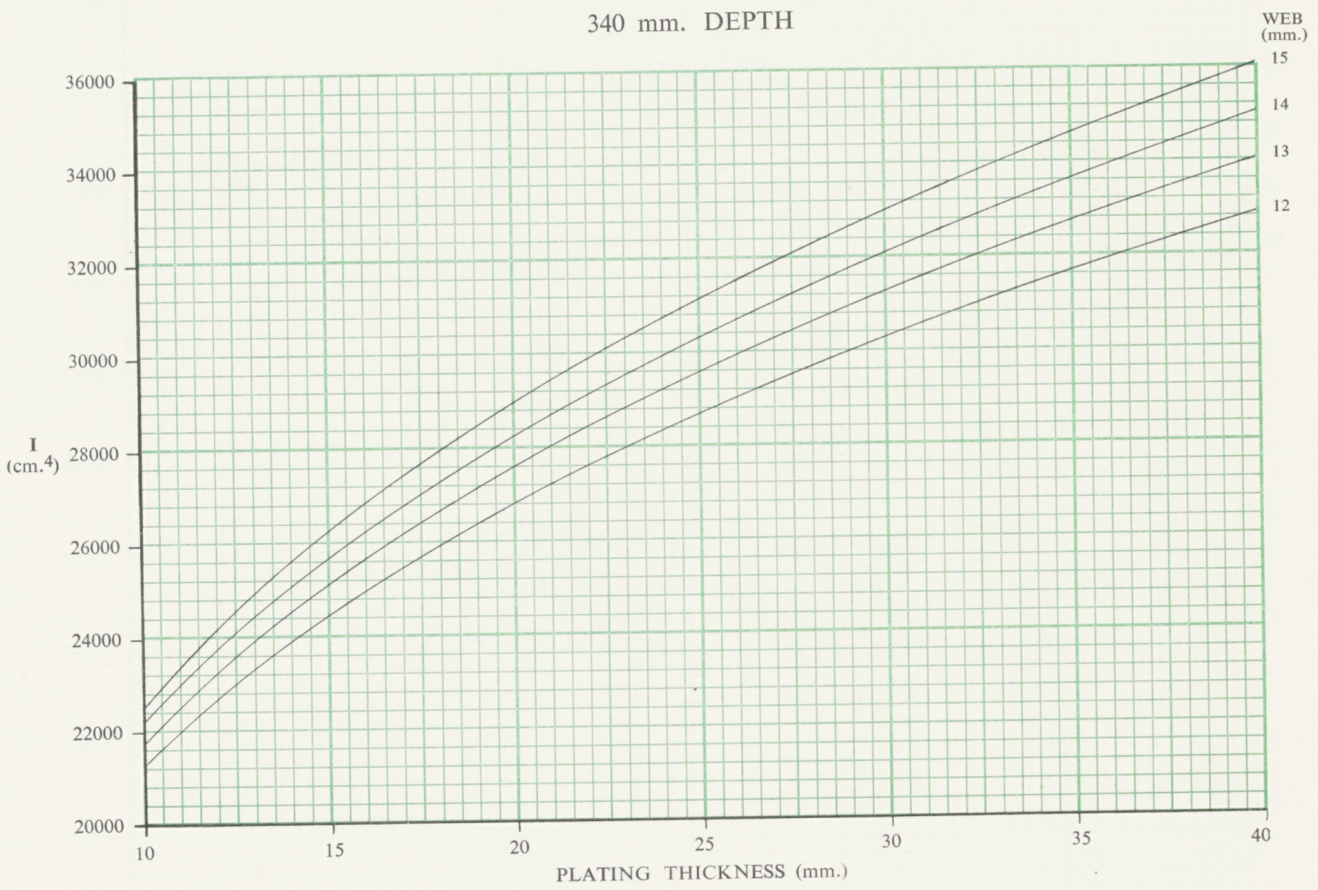
320 mm. DEPTH

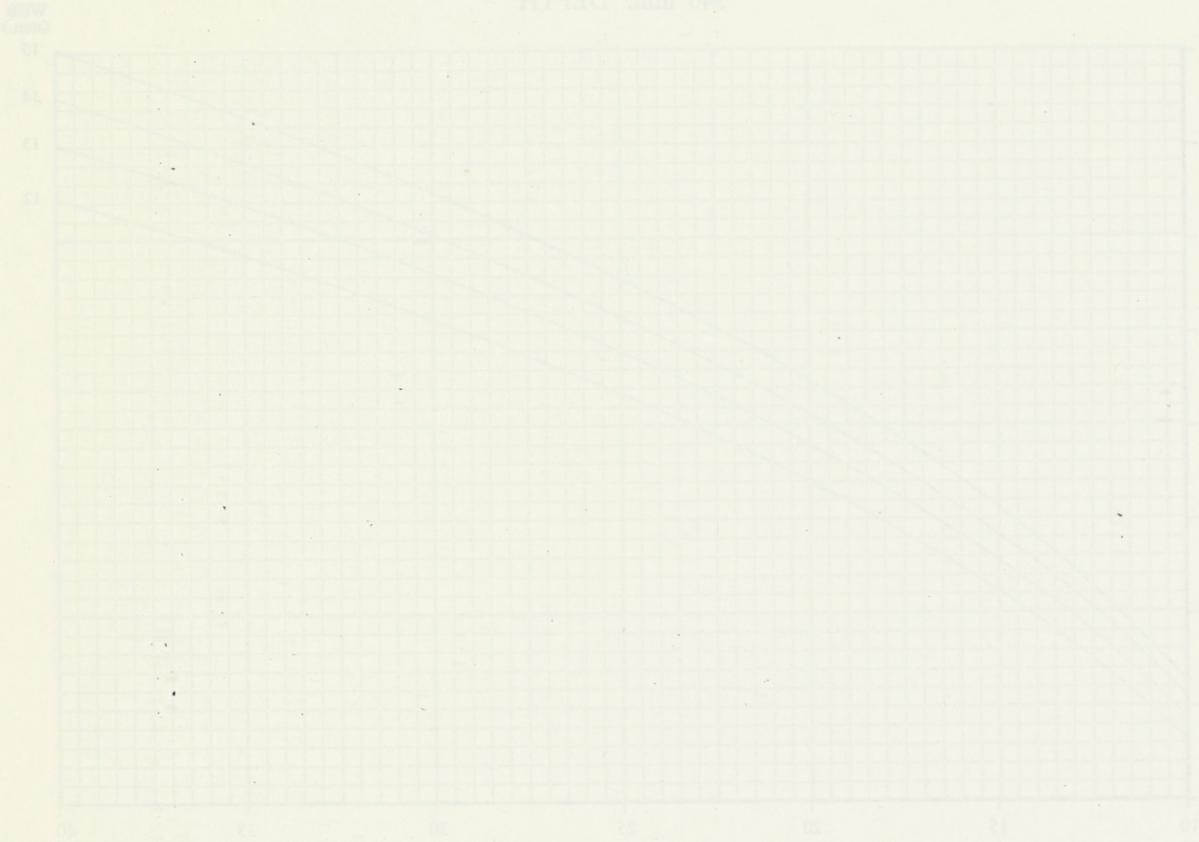


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES (H.P.)

(WITH PLATING)

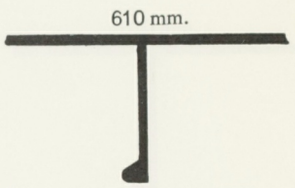




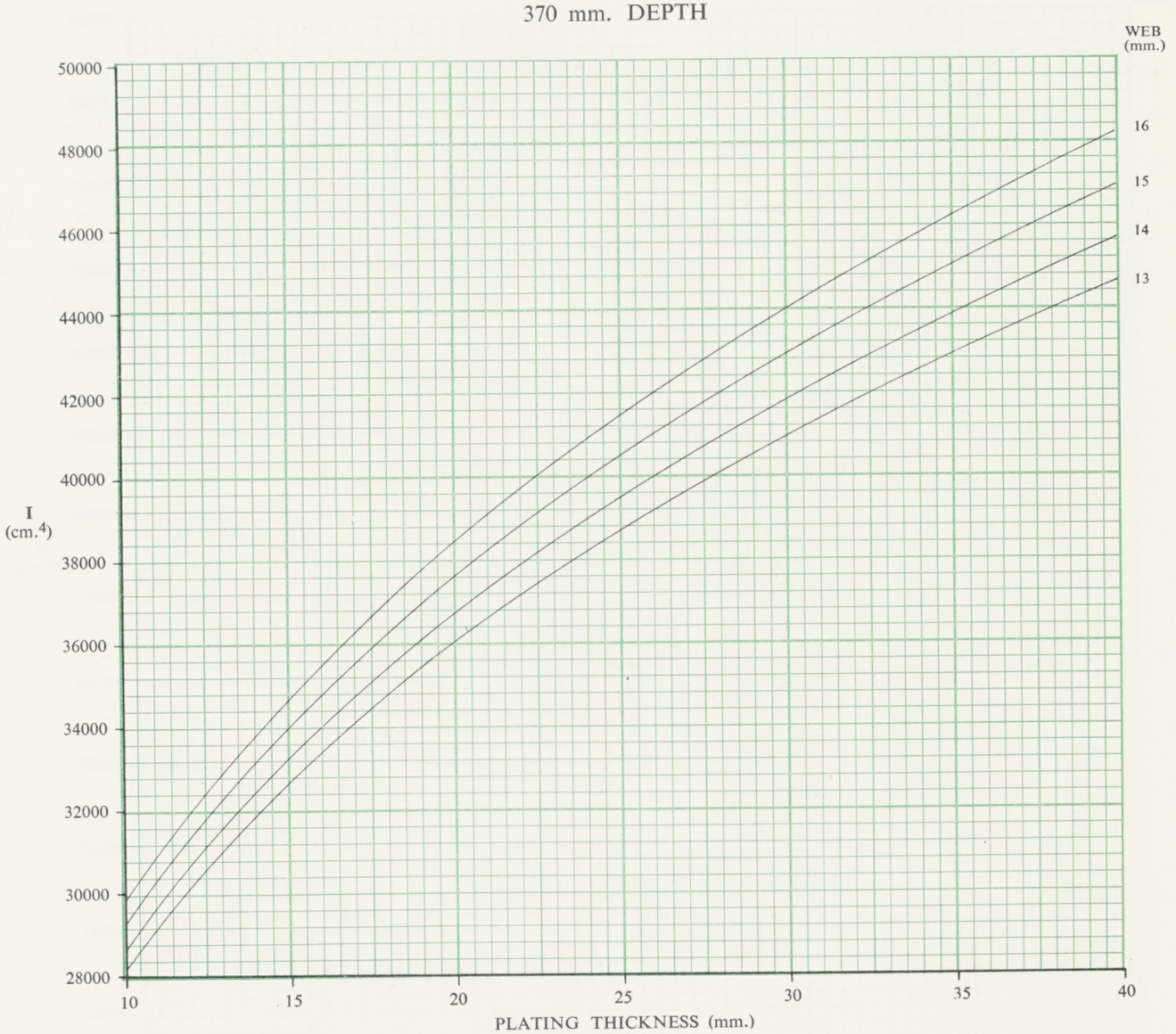


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES (H.P.)

(WITH PLATING)

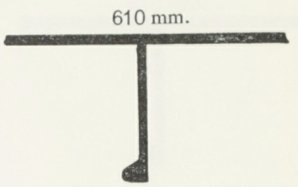


370 mm. DEPTH

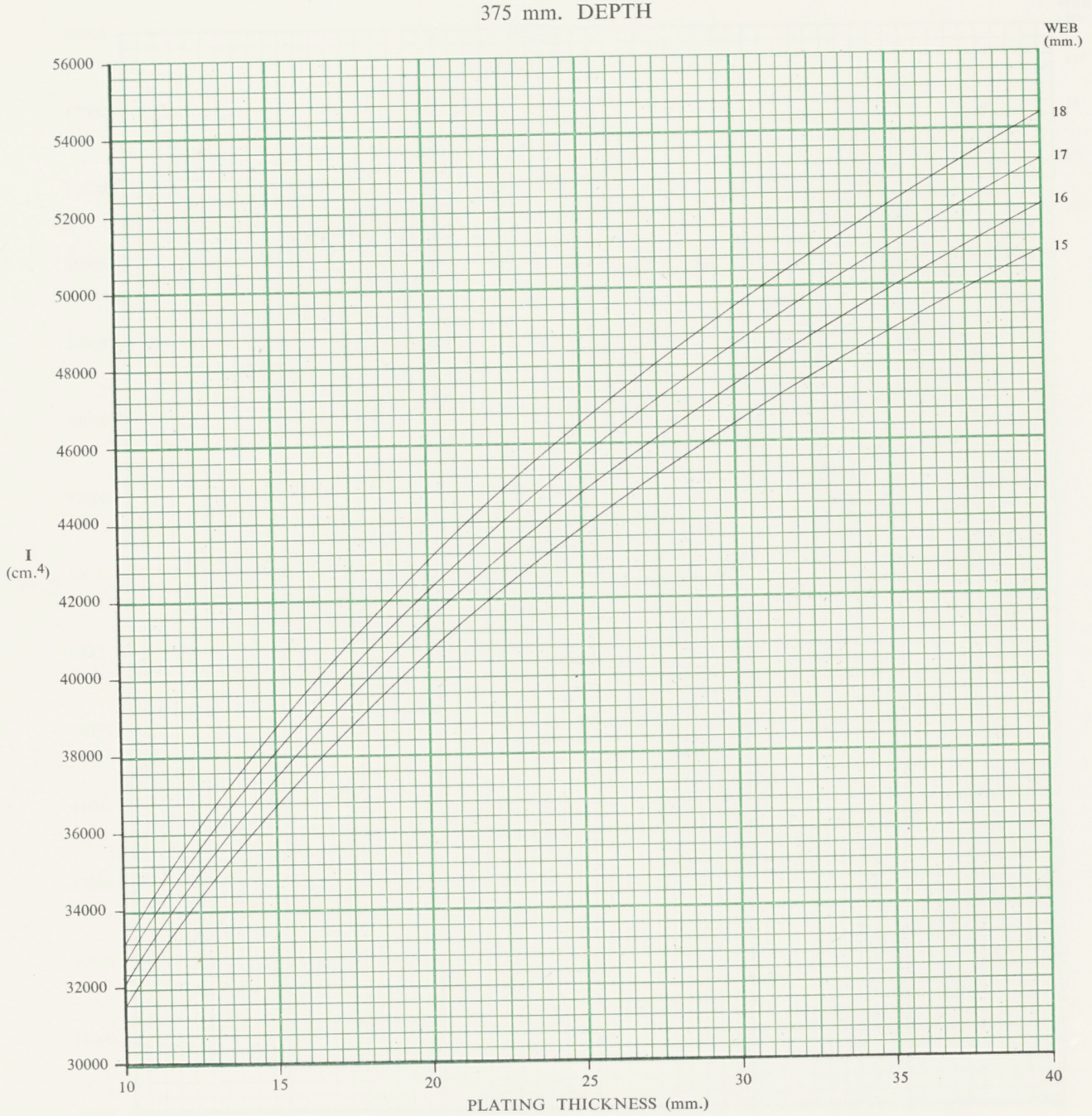


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES (H.P.)

(WITH PLATING)



375 mm. DEPTH



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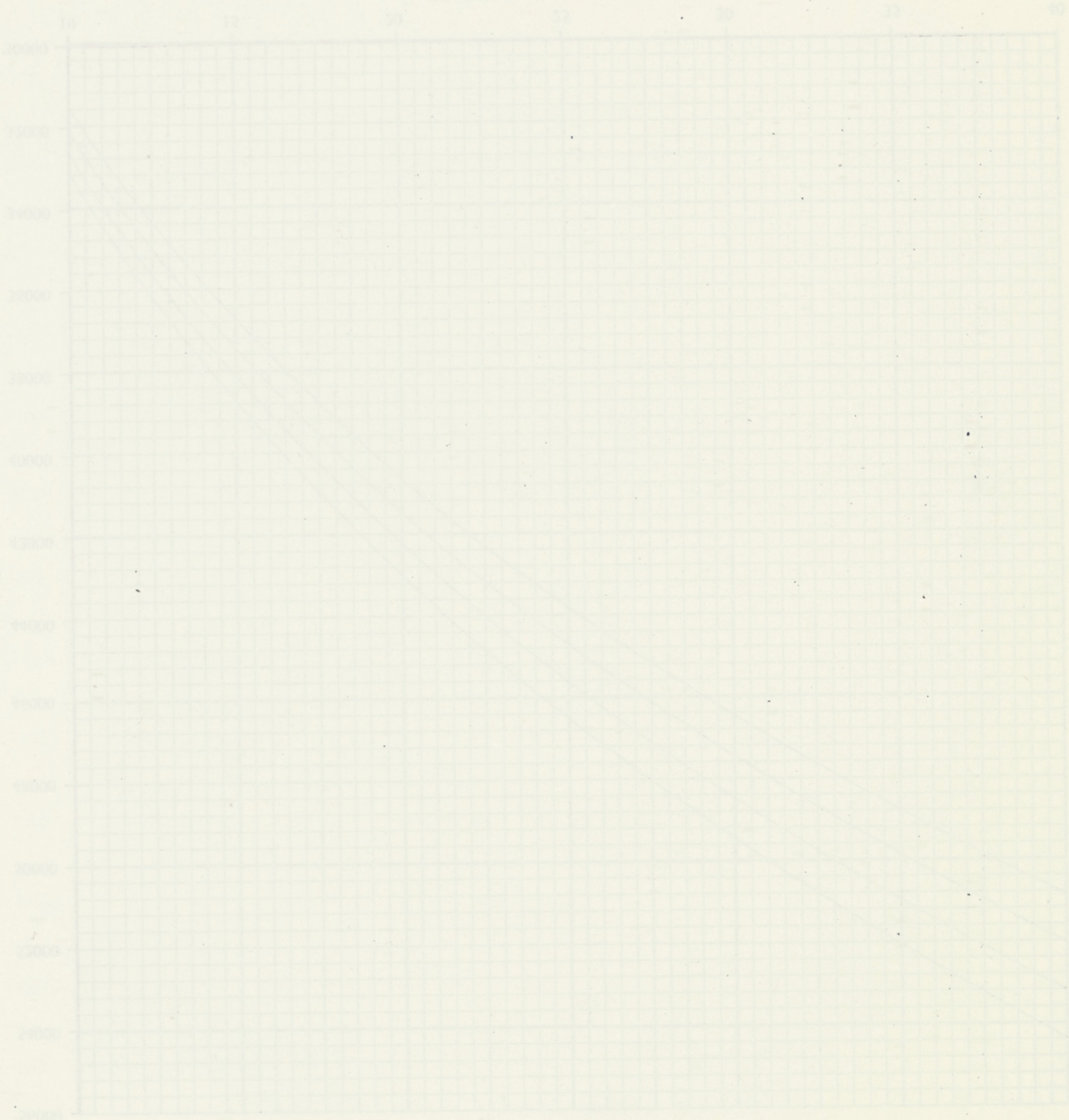
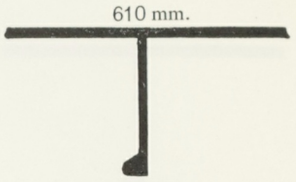
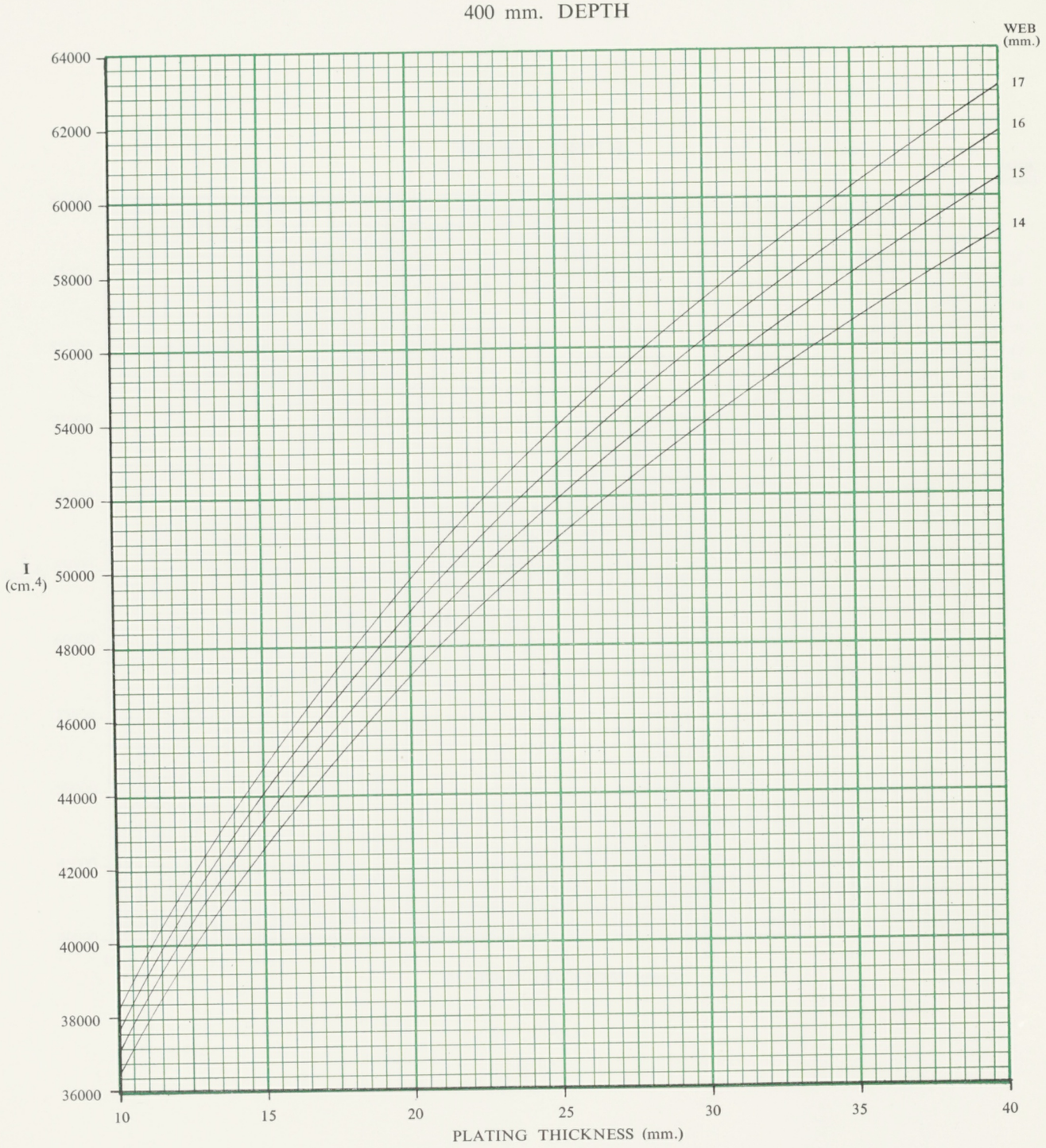


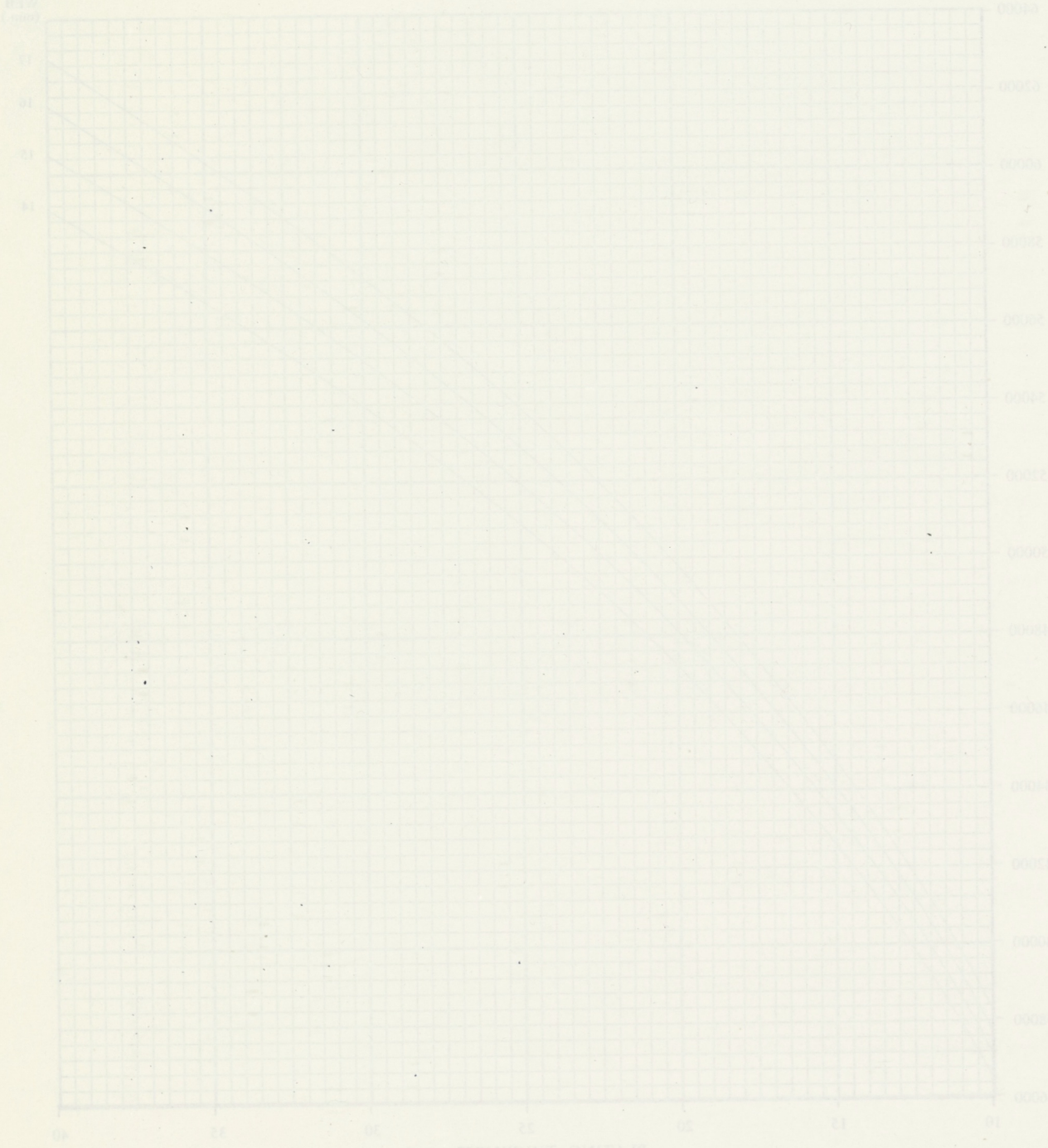
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES (H.P.)

(WITH PLATING)



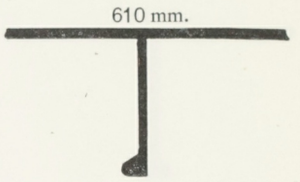
400 mm. DEPTH



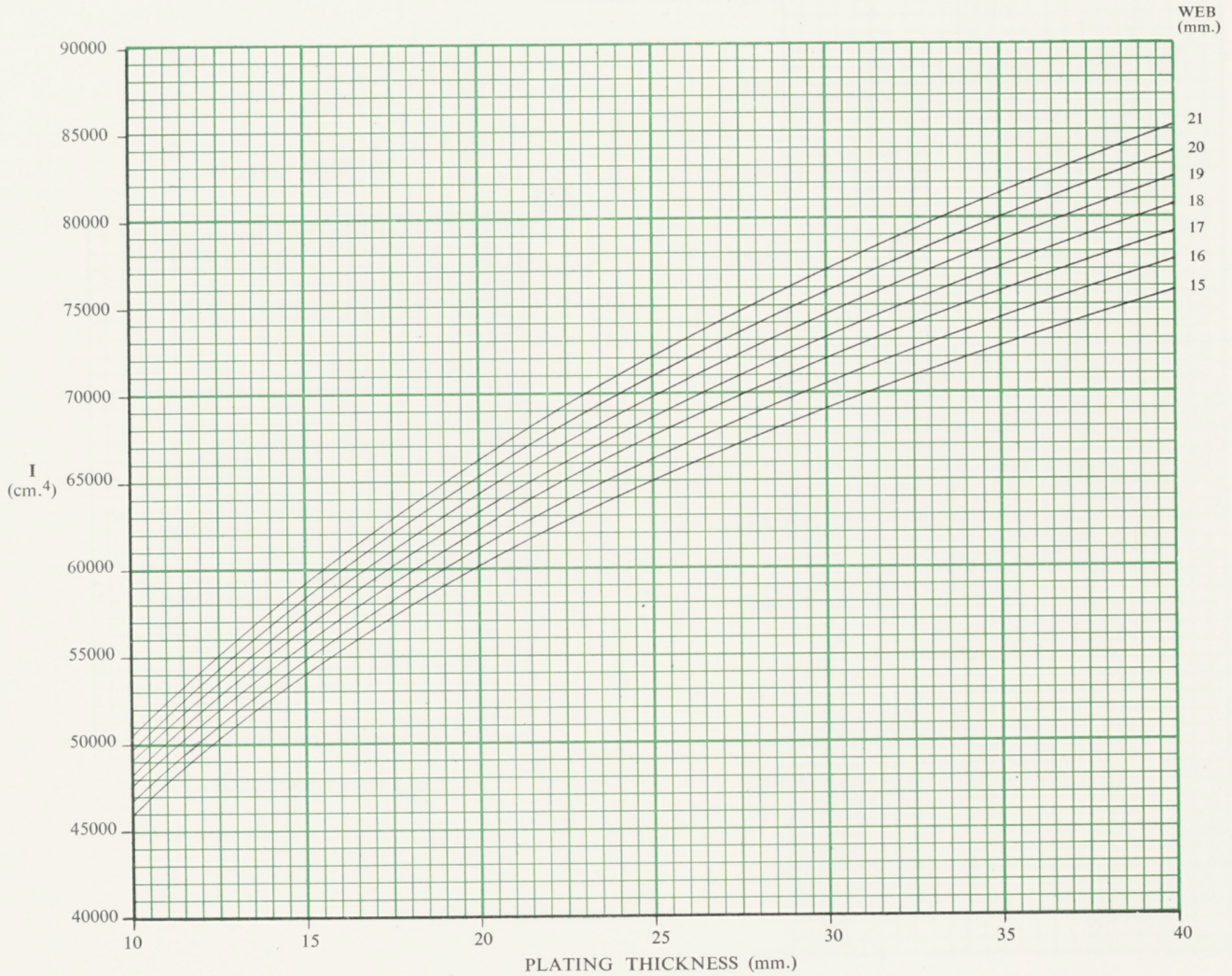


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES (H.P.)

(WITH PLATING)

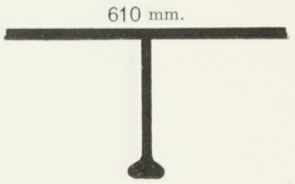


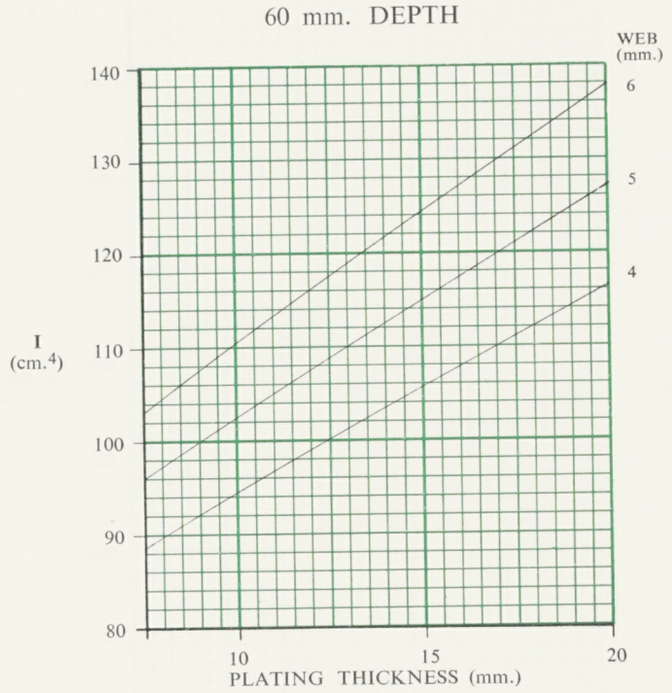
430 mm. DEPTH

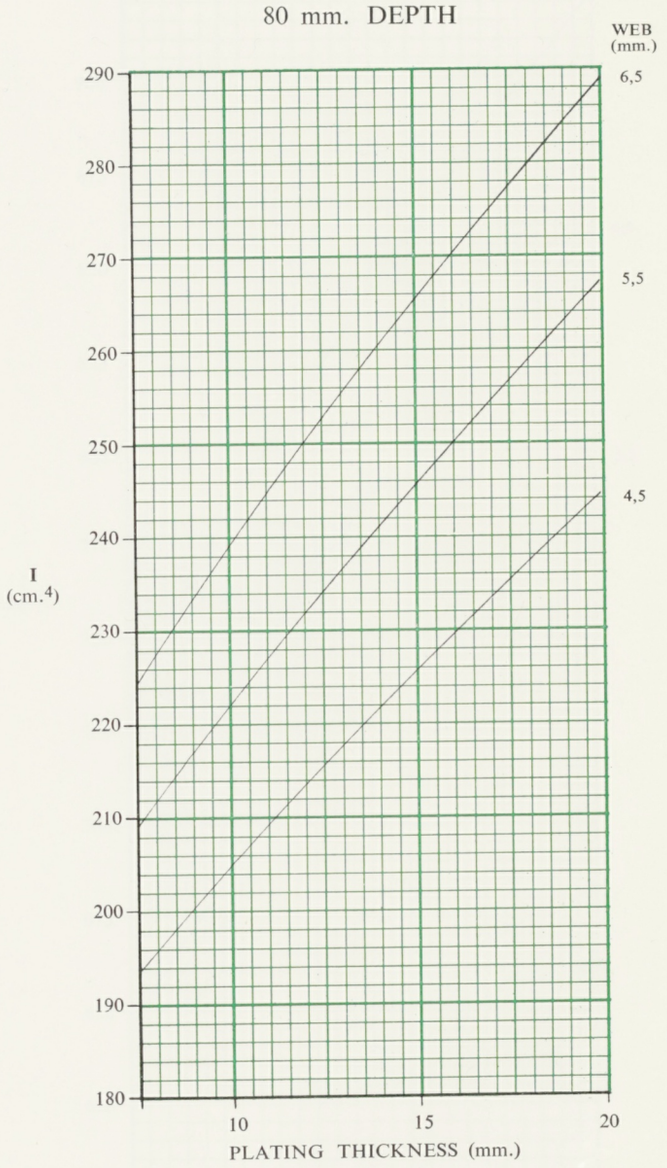


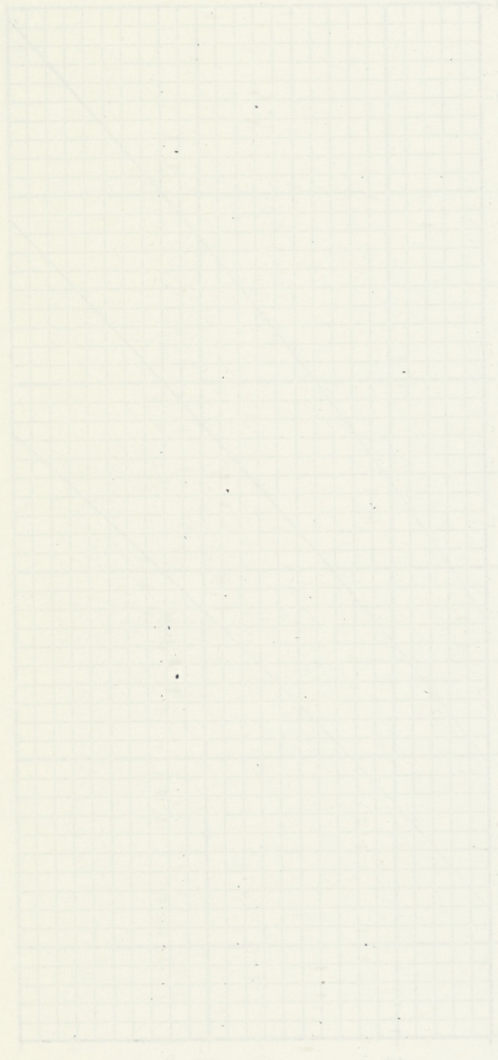
MOMENT OF INERTIA OF DOUBLE-SIDED BULB PLATES (D.P.)

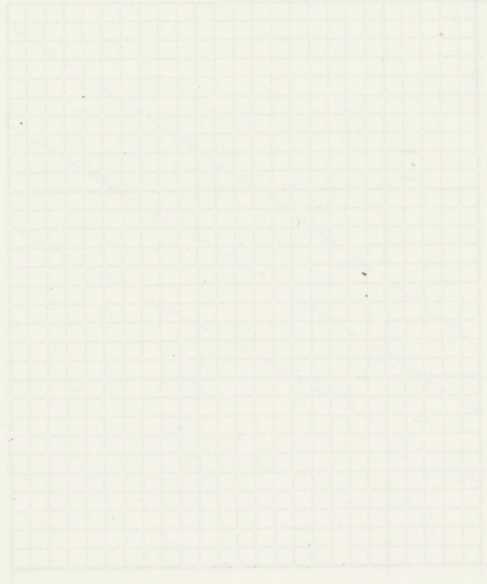
(WITH PLATING)





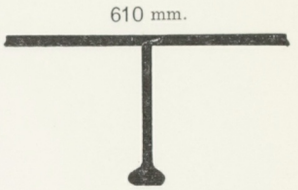




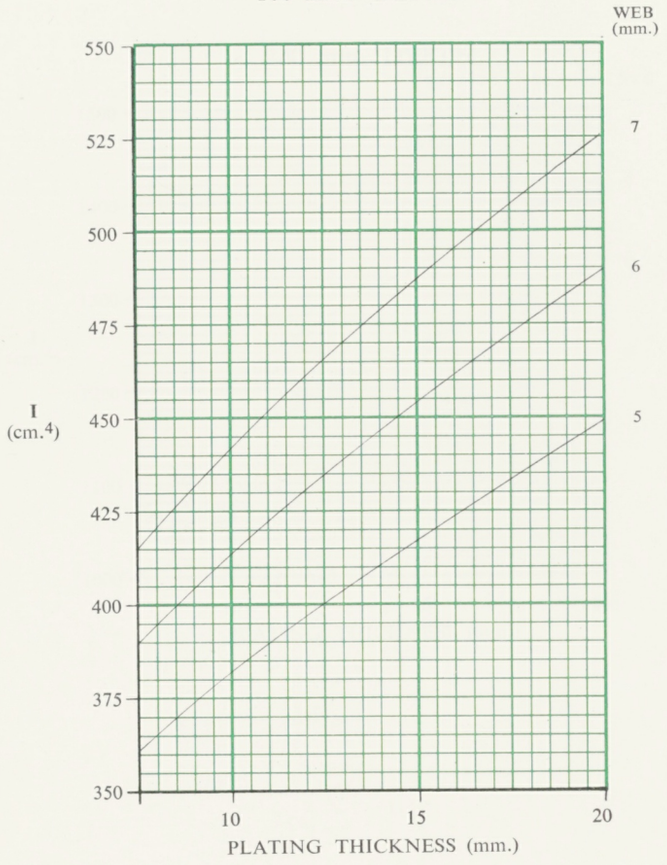


MOMENT OF INERTIA OF DOUBLE-SIDED BULB PLATES (D.P.)

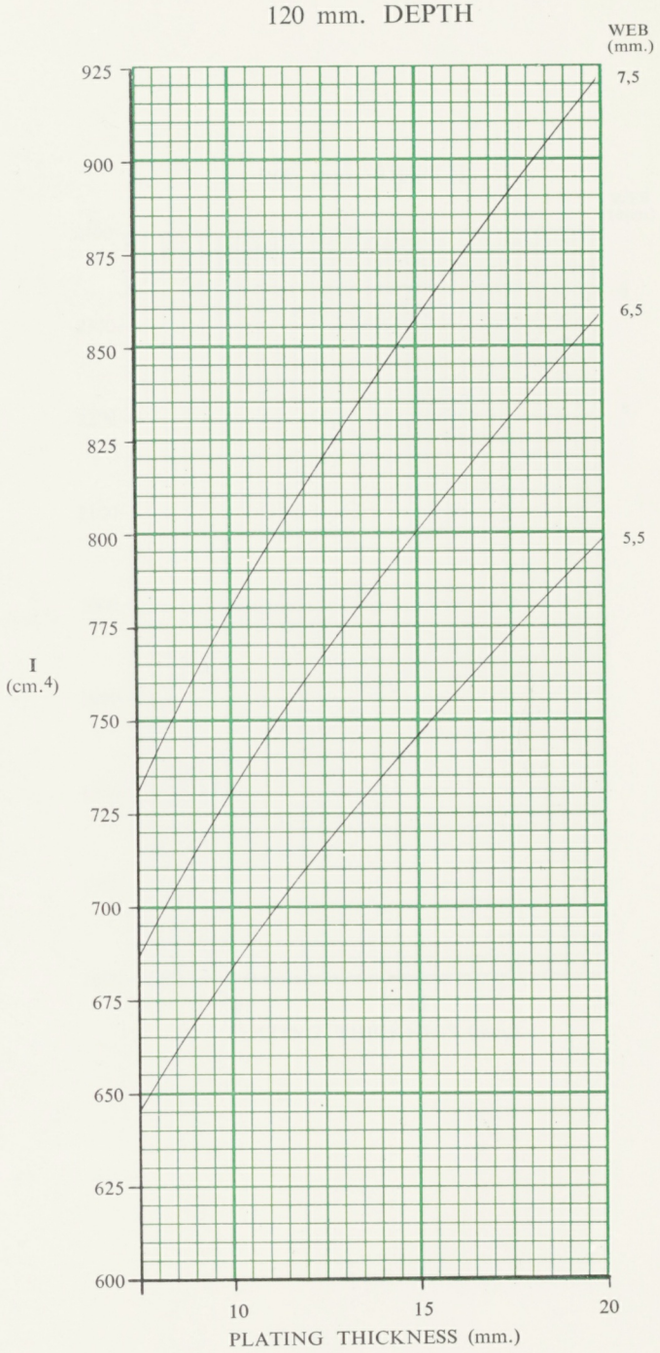
(WITH PLATING)

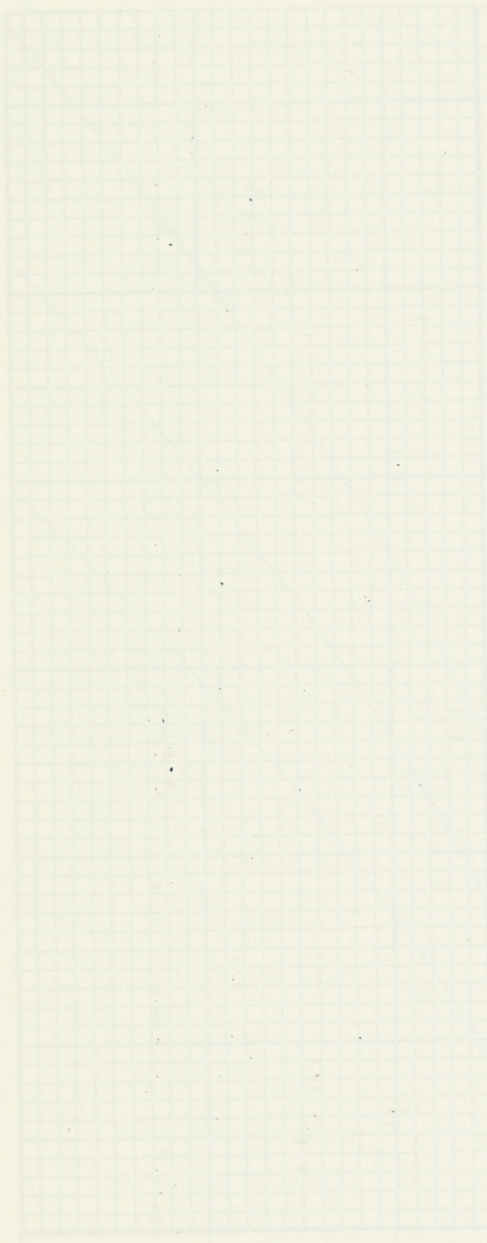


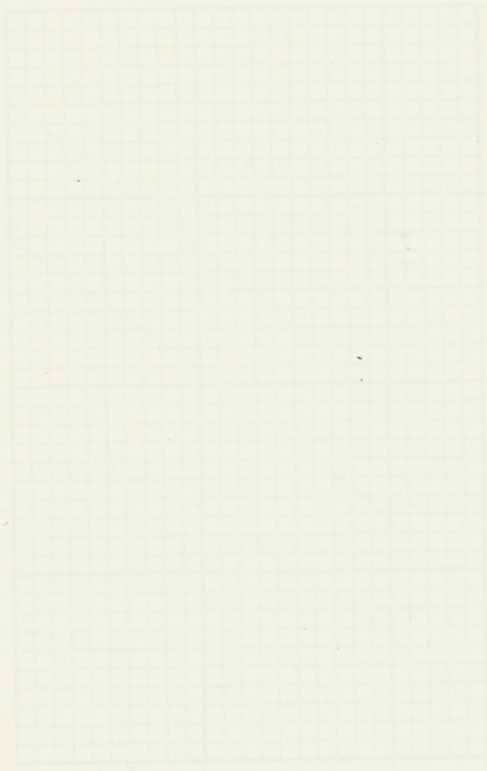
100 mm. DEPTH



120 mm. DEPTH

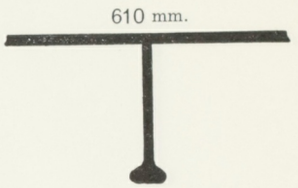




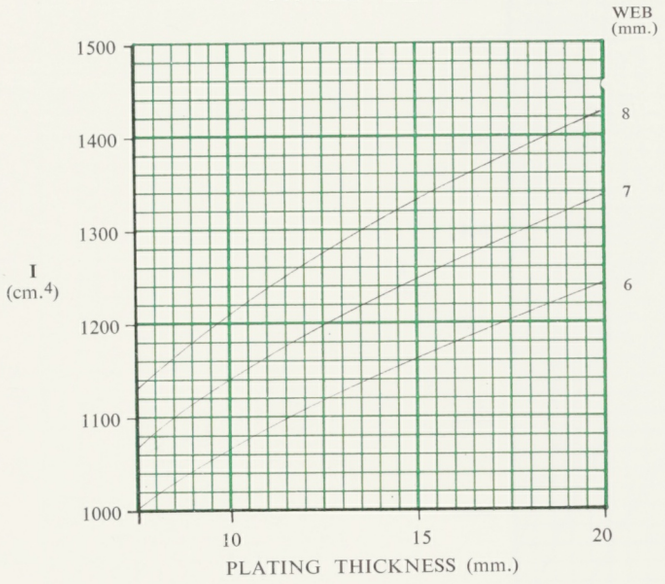


MOMENT OF INERTIA OF DOUBLE-SIDED BULB PLATES (D.P.)

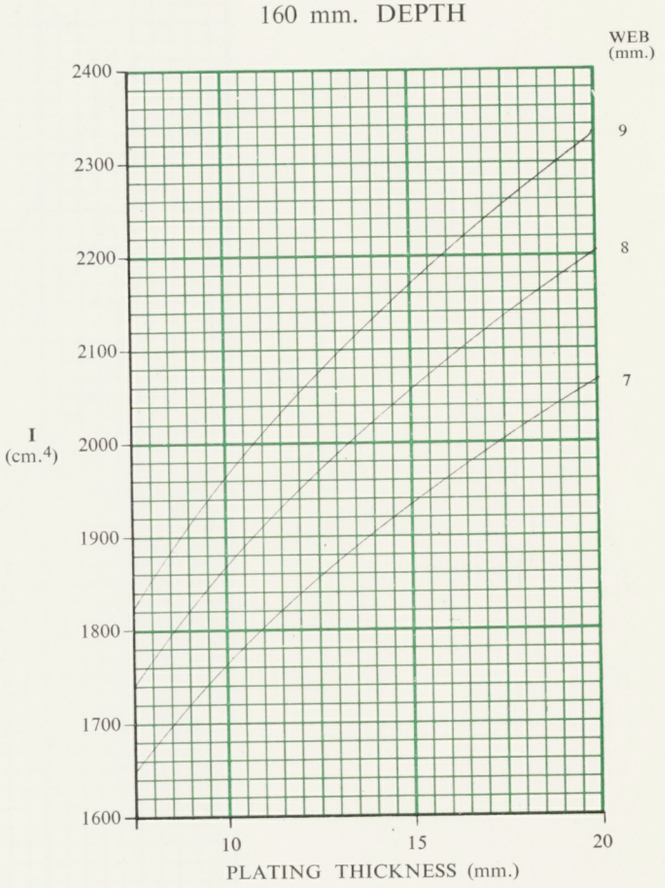
(WITH PLATING)

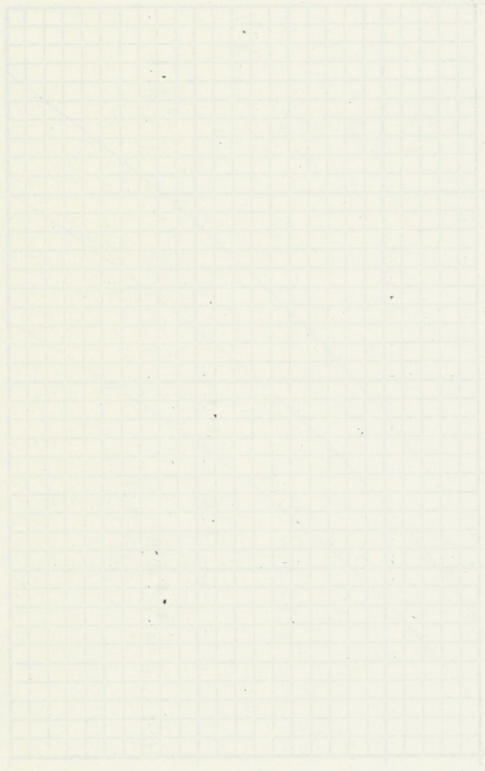


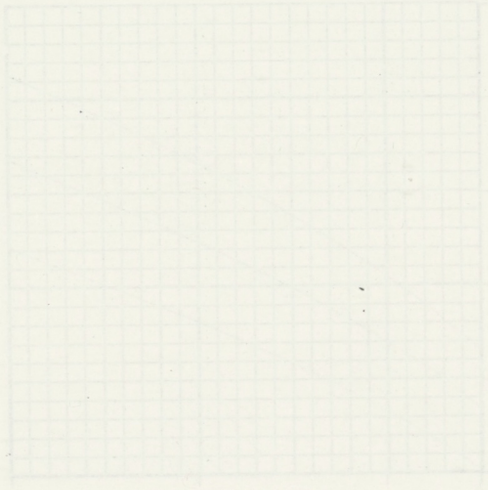
140 mm. DEPTH



160 mm. DEPTH

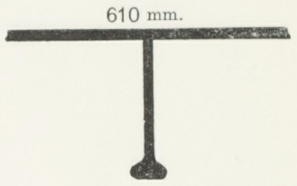




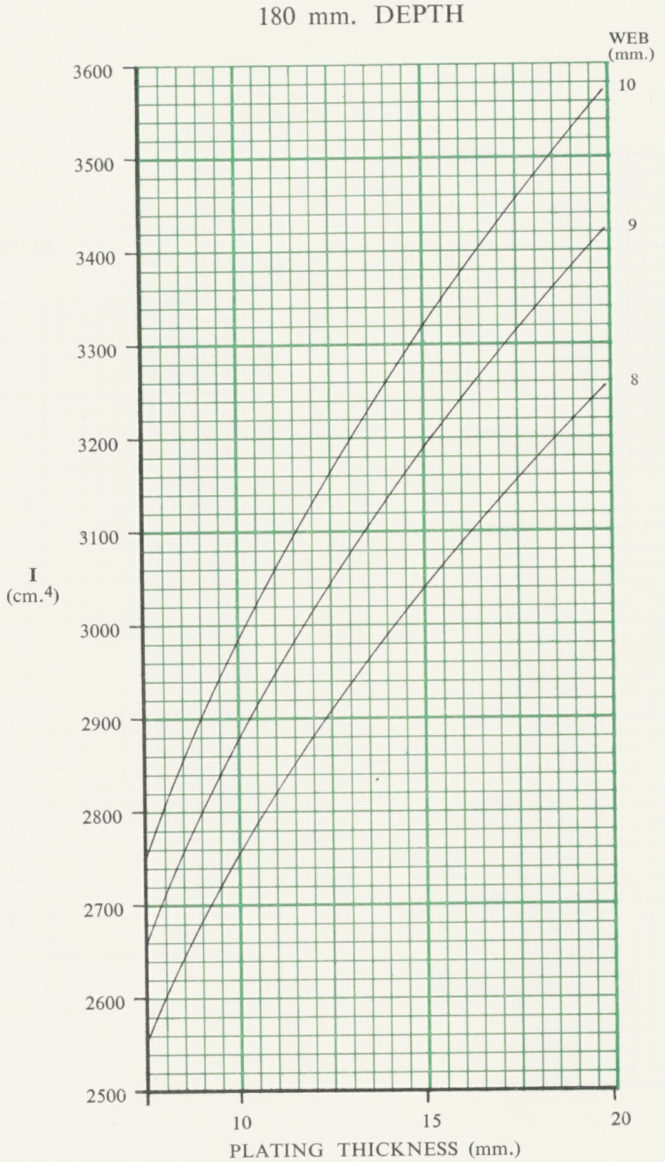


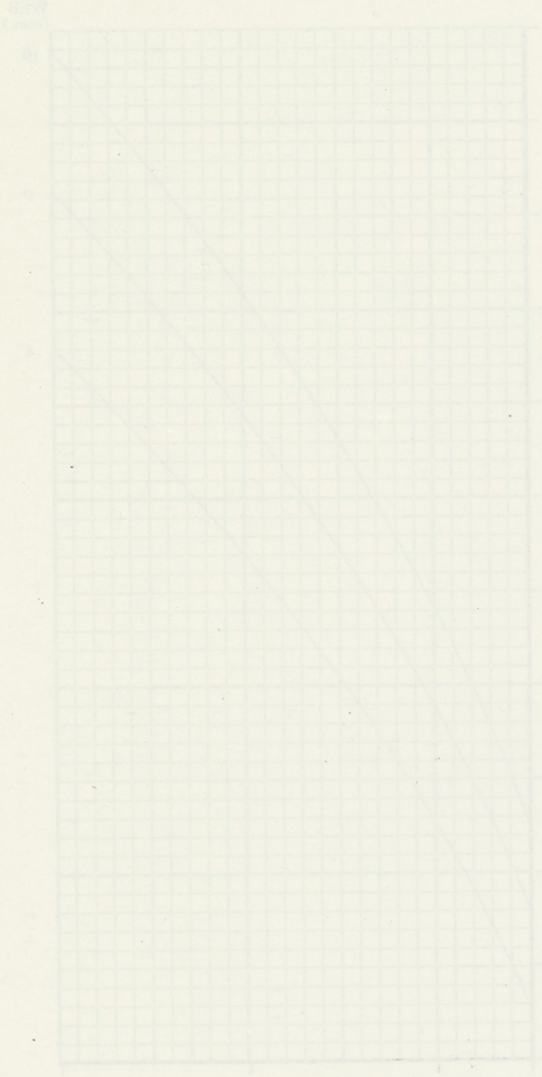
MOMENT OF INERTIA OF DOUBLE-SIDED BULB PLATES (D.P.)

(WITH PLATING)



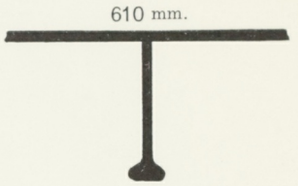
180 mm. DEPTH



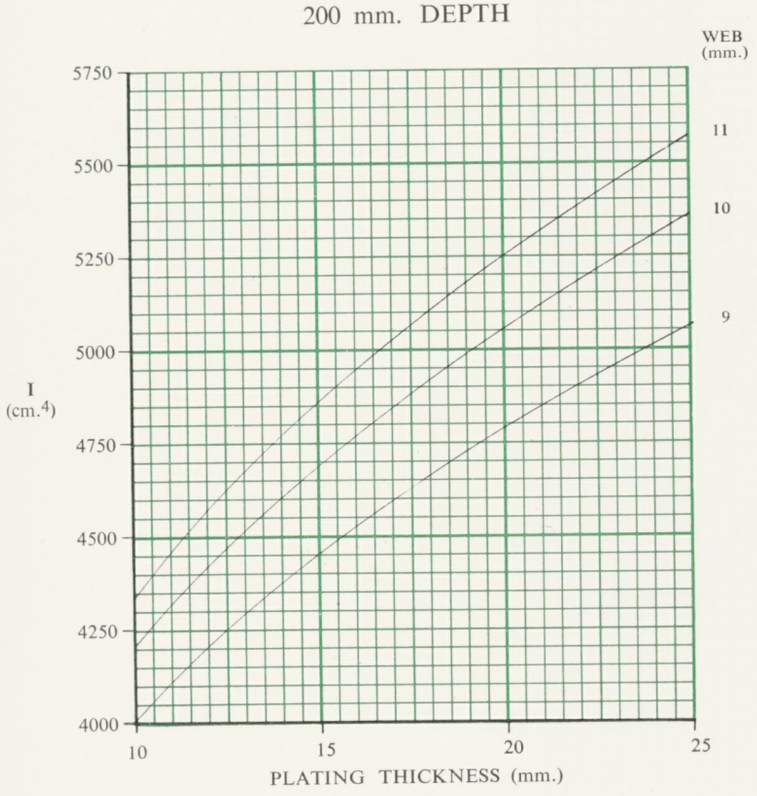


MOMENT OF INERTIA OF DOUBLE-SIDED BULB PLATES (D.P.)

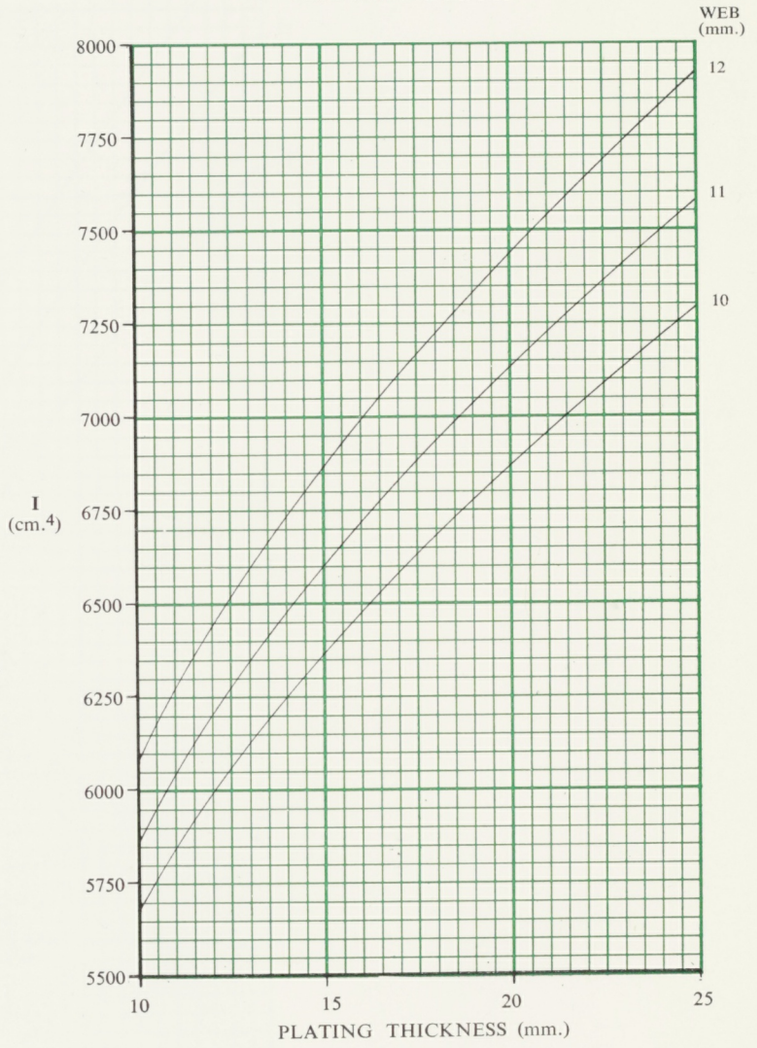
(WITH PLATING)

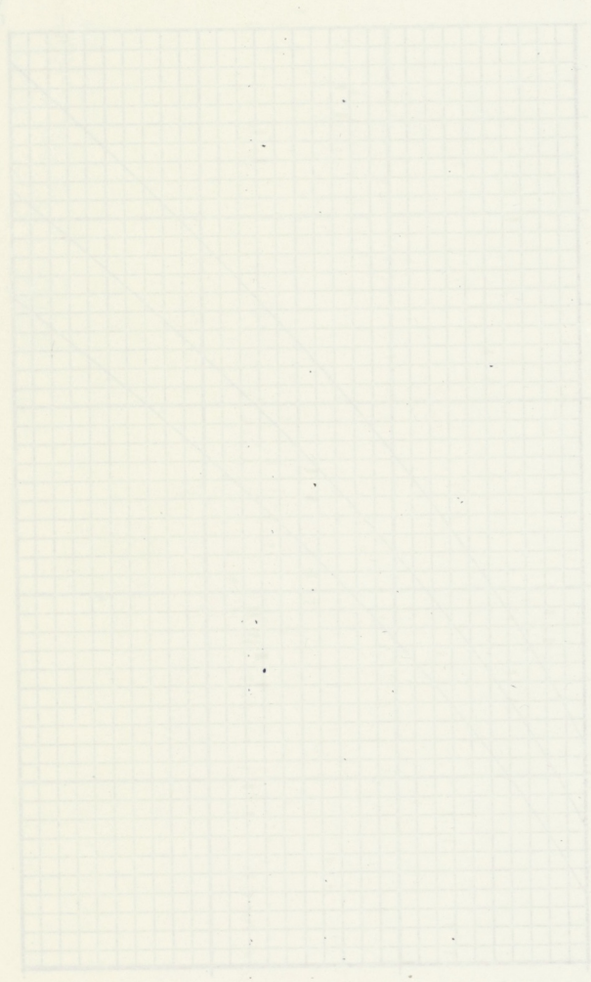


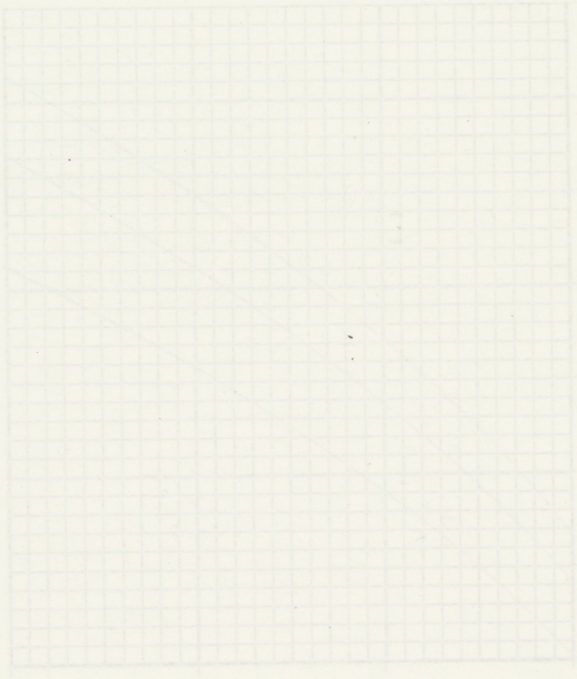
200 mm. DEPTH



220 mm. DEPTH

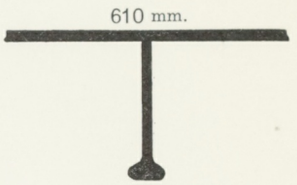


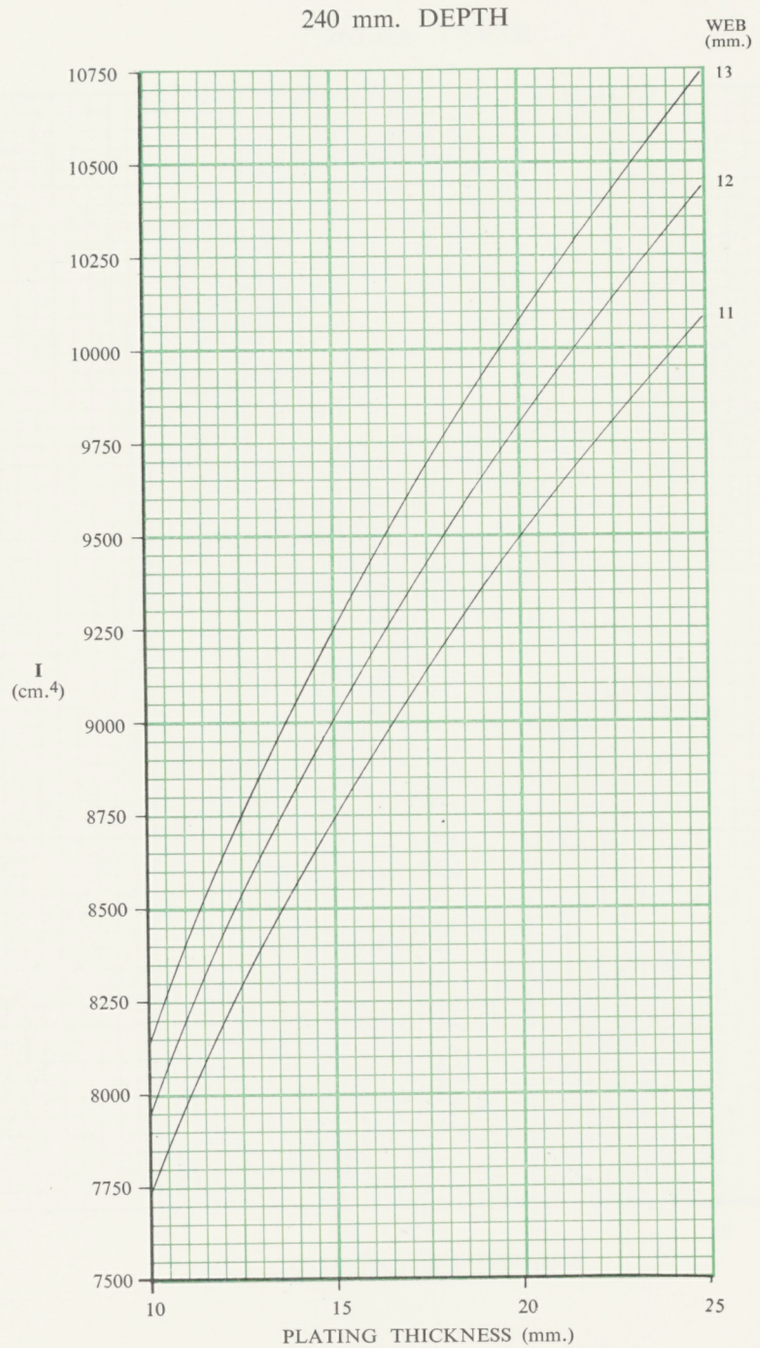




MOMENT OF INERTIA OF DOUBLE-SIDED BULB PLATES (D.P.)

(WITH PLATING)

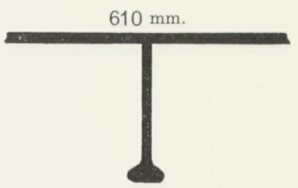




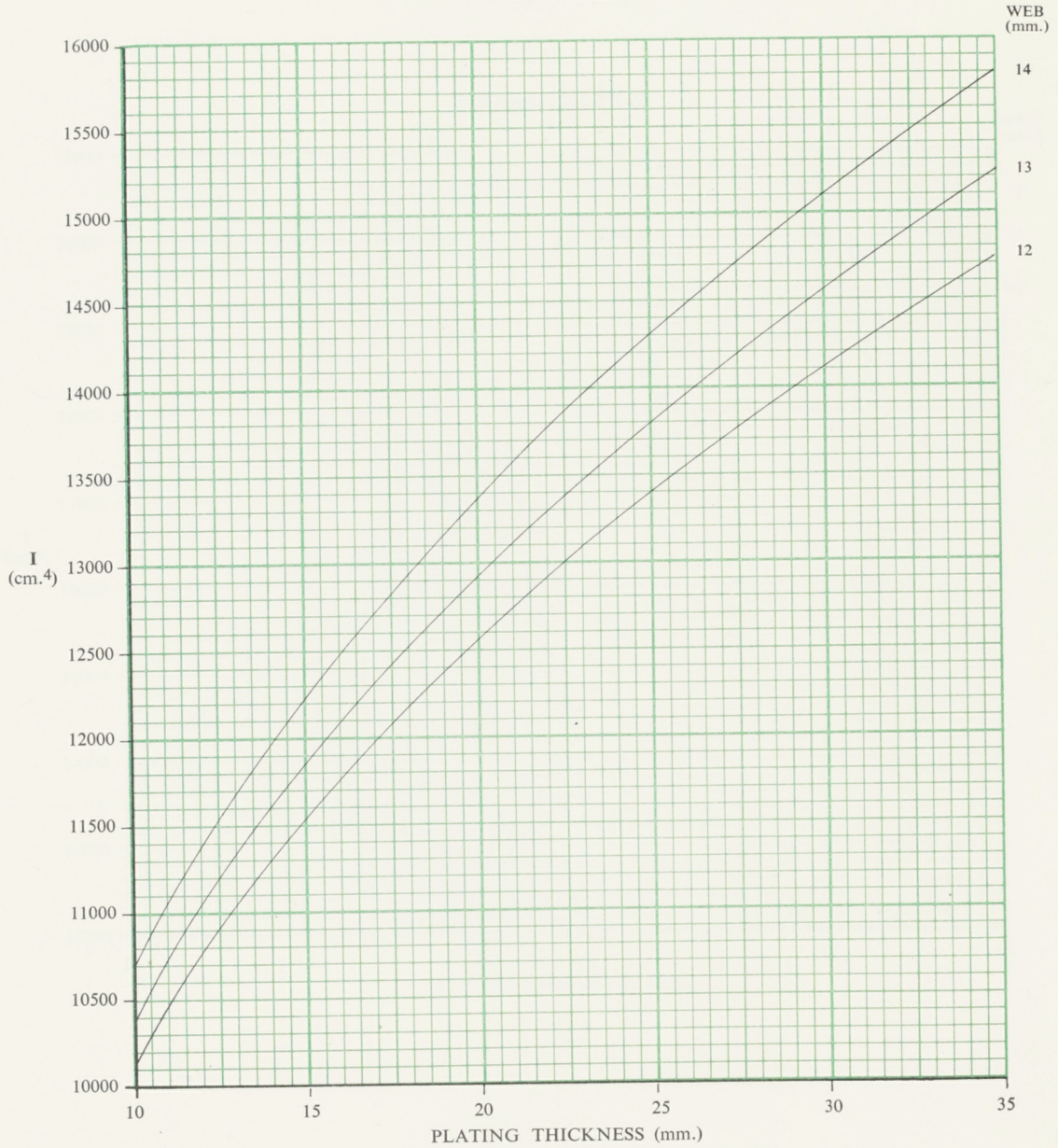
AA

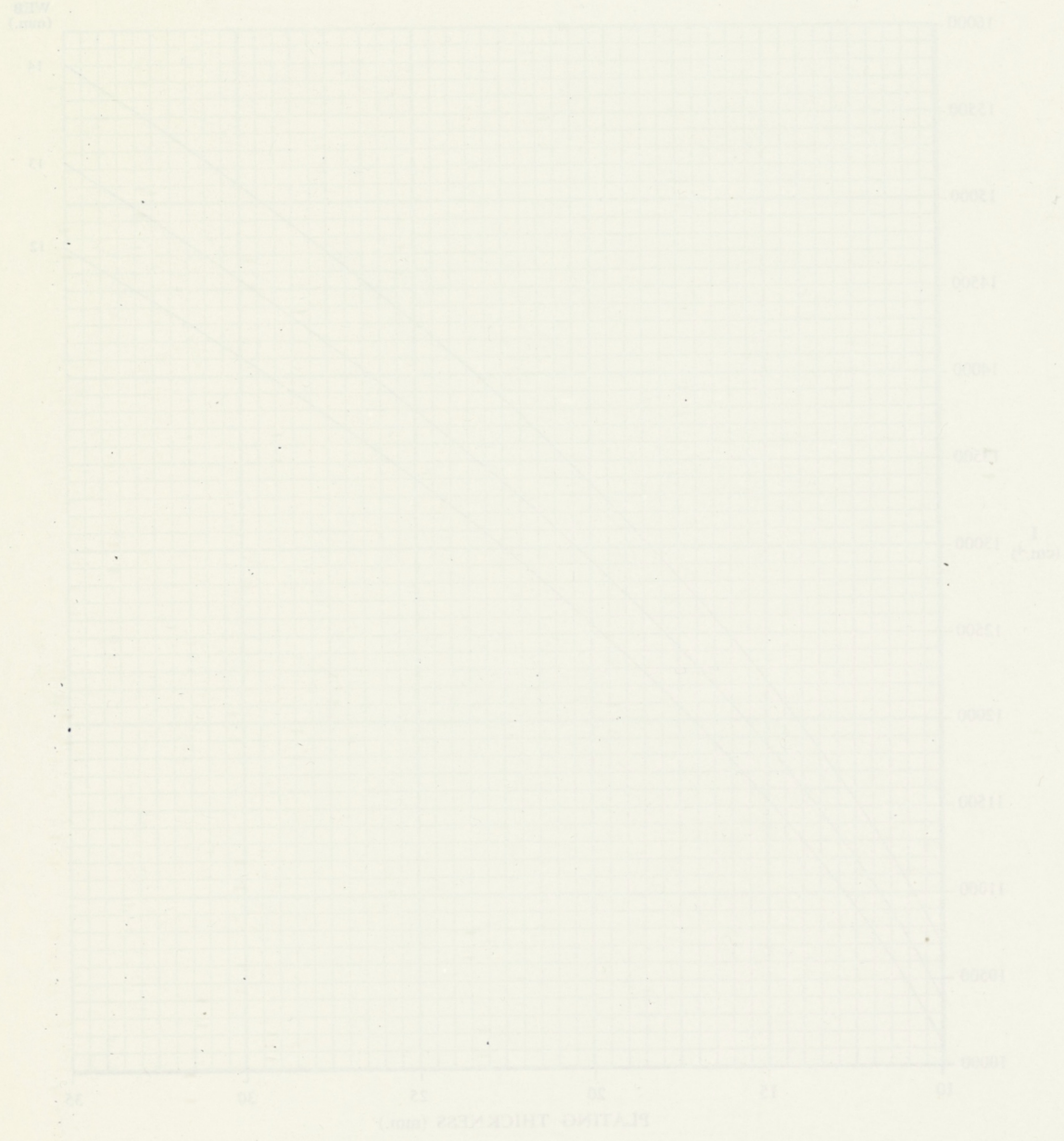
MOMENT OF INERTIA OF DOUBLE-SIDED BULB PLATES (D.P.)

(WITH PLATING)



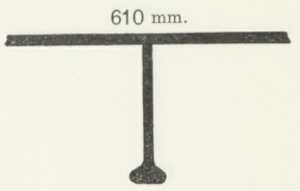
260 mm. DEPTH



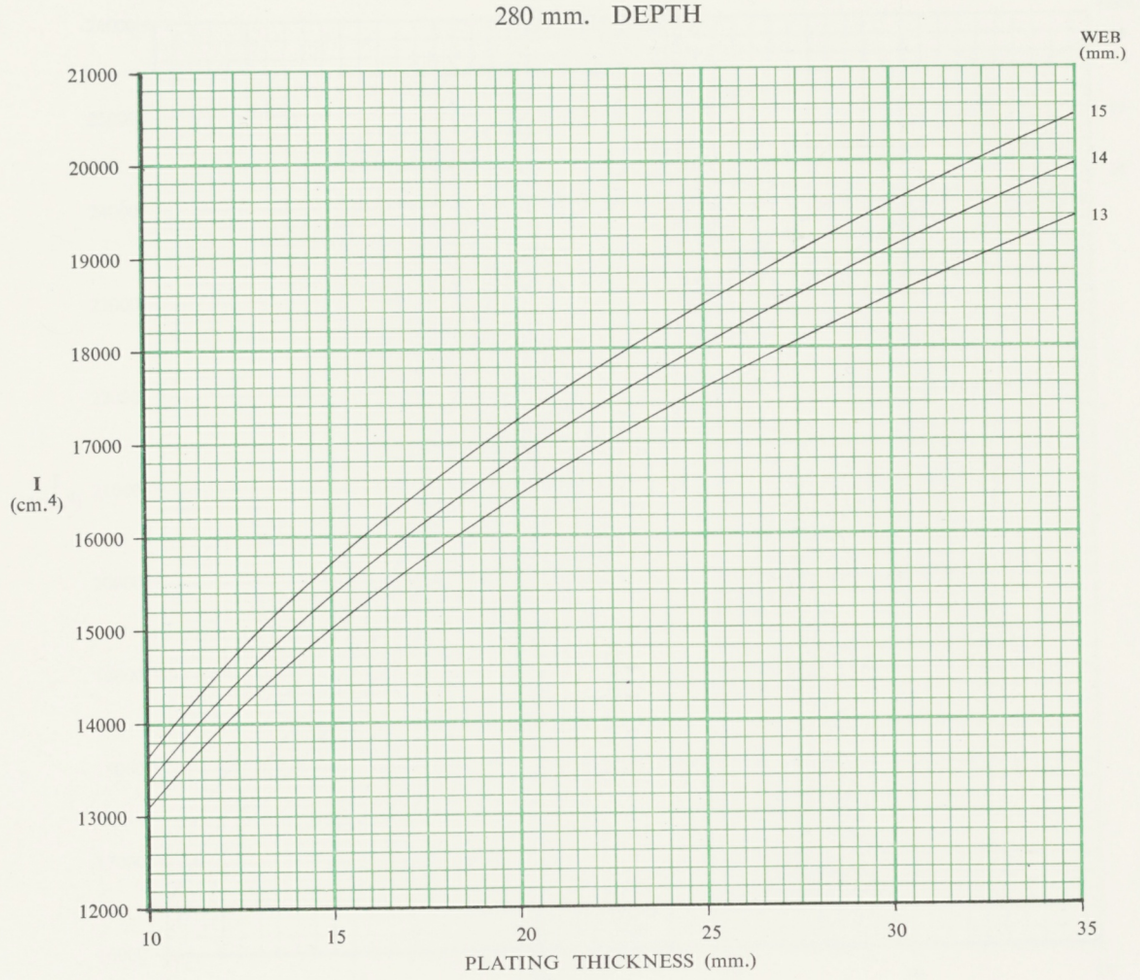


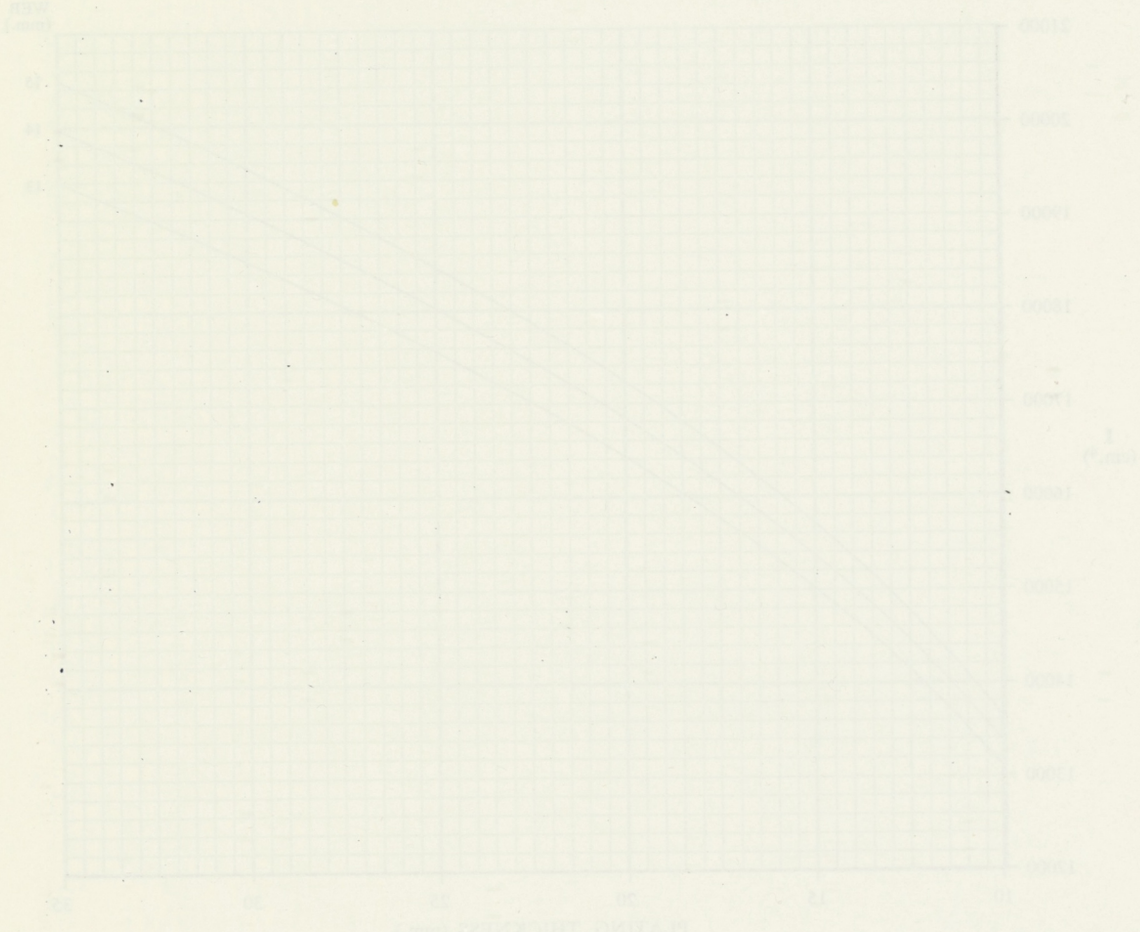
MOMENT OF INERTIA OF DOUBLE-SIDED BULB PLATES (D.P.)

(WITH PLATING)



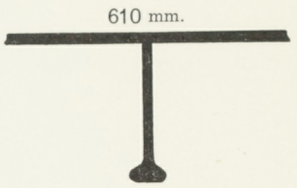
280 mm. DEPTH



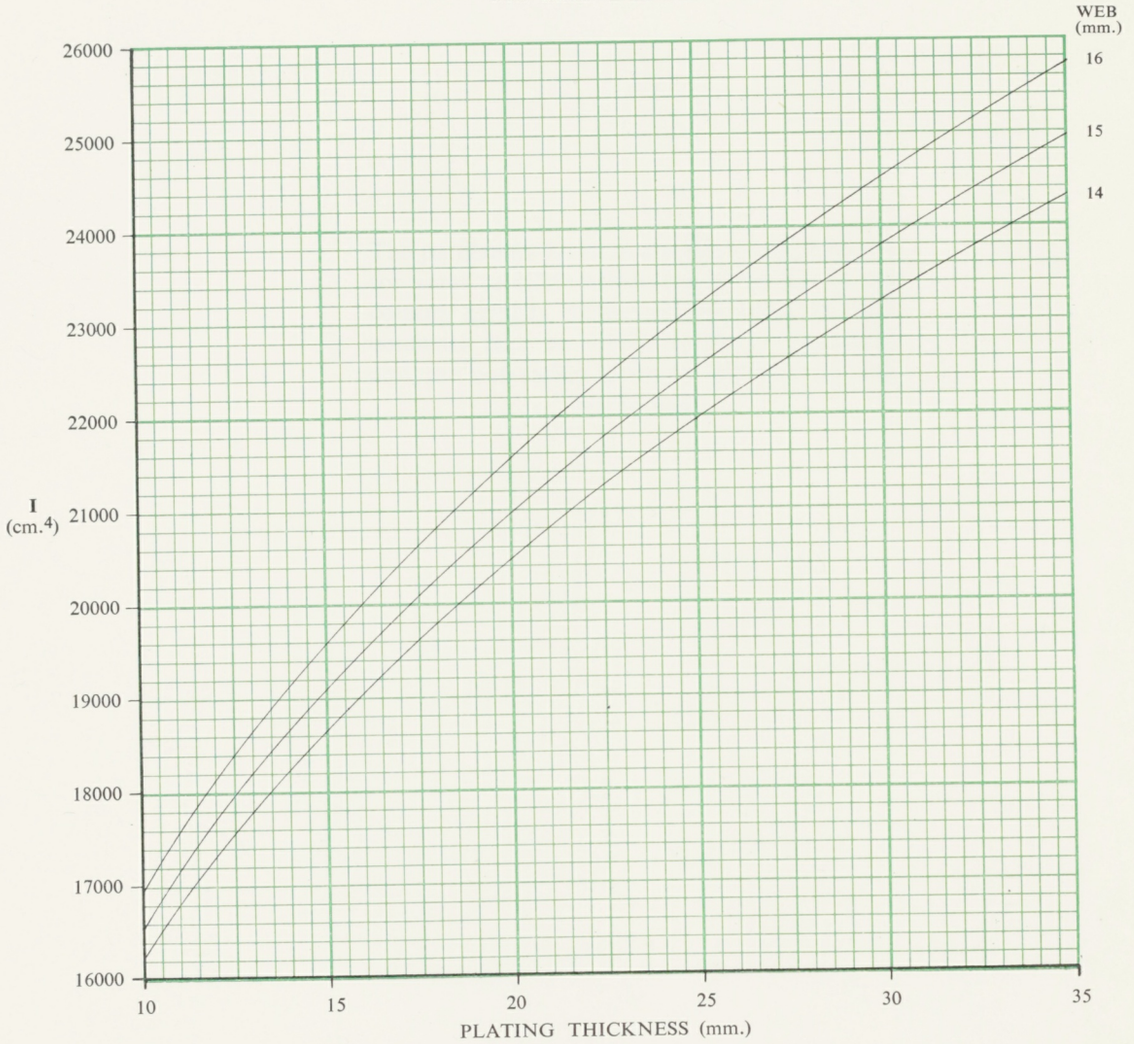


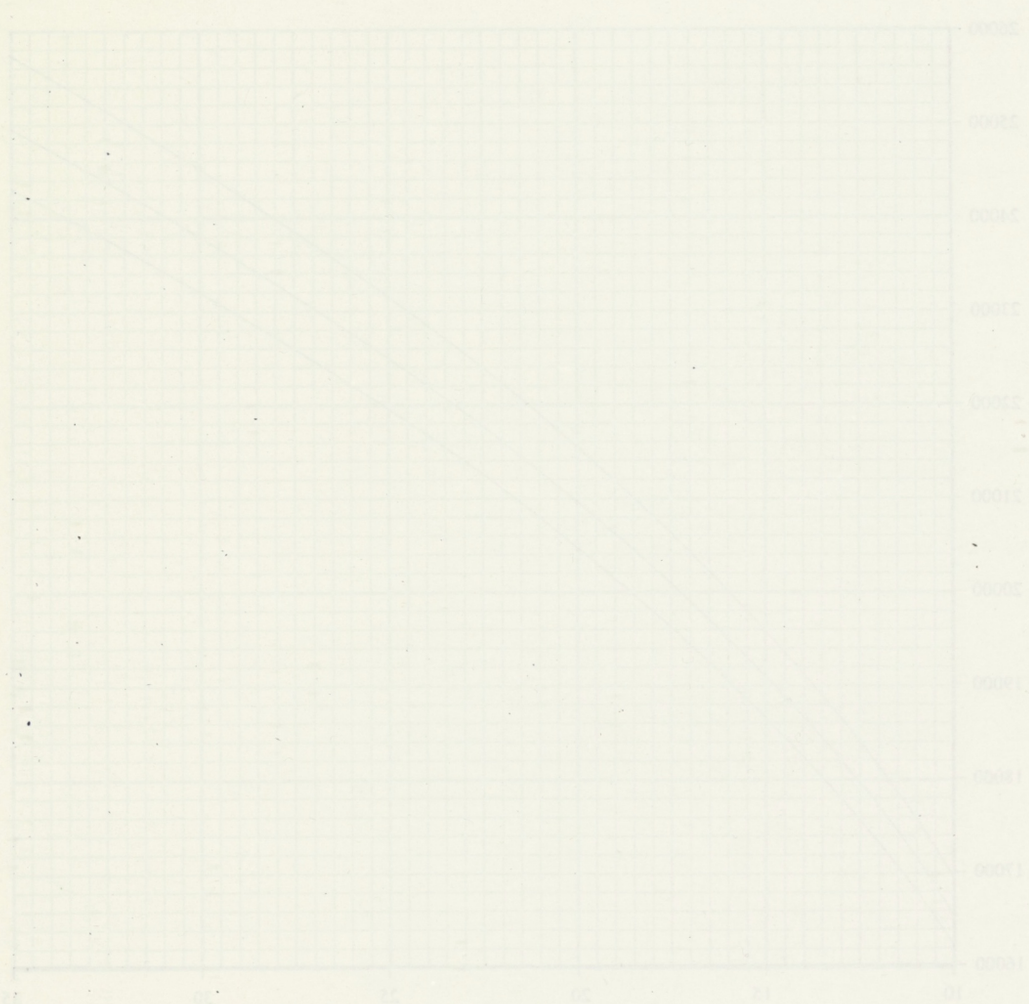
MOMENT OF INERTIA OF DOUBLE-SIDED BULB PLATES (D.P.)

(WITH PLATING)



300 mm. DEPTH

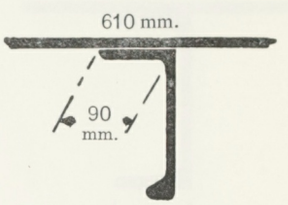




The particulars given in the following plates are for some sections which are particular to the country named. Other sections rolled in these countries may be similar to D.I.N. standards and the particulars given on plates 5 to 185 can be used

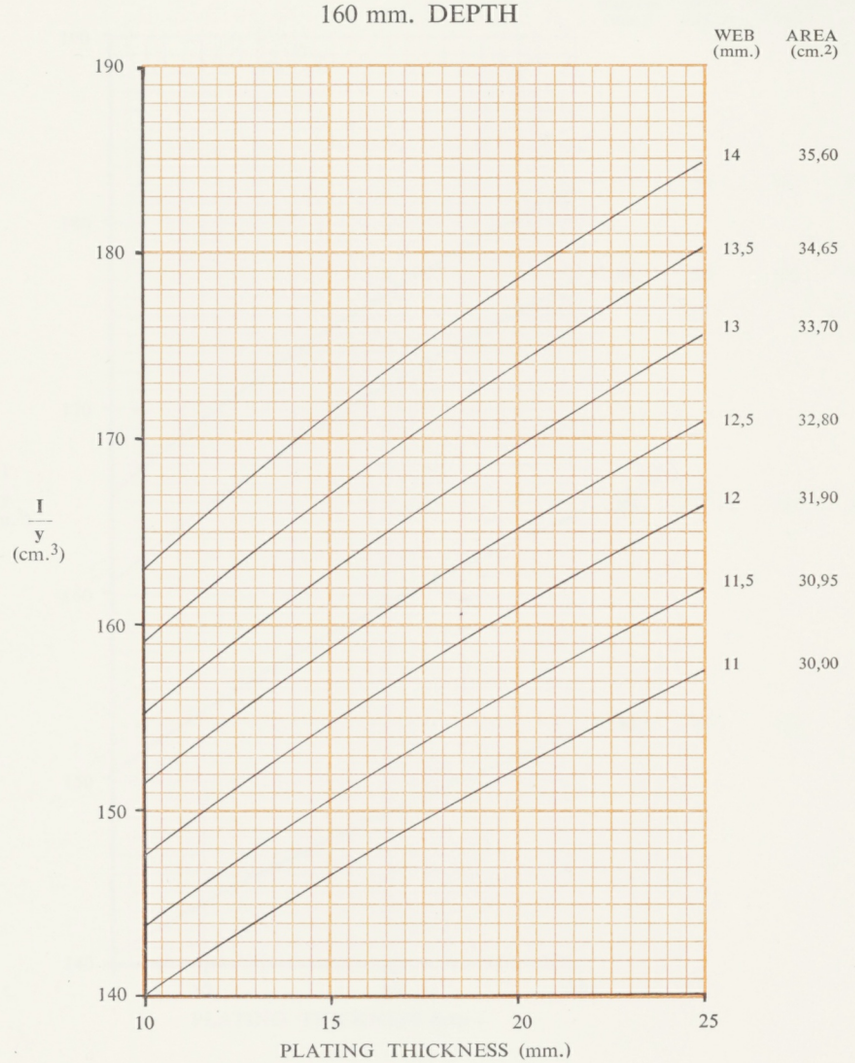
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



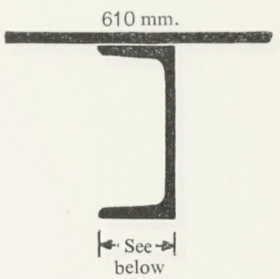
90 mm. FLANGE

160 mm. DEPTH

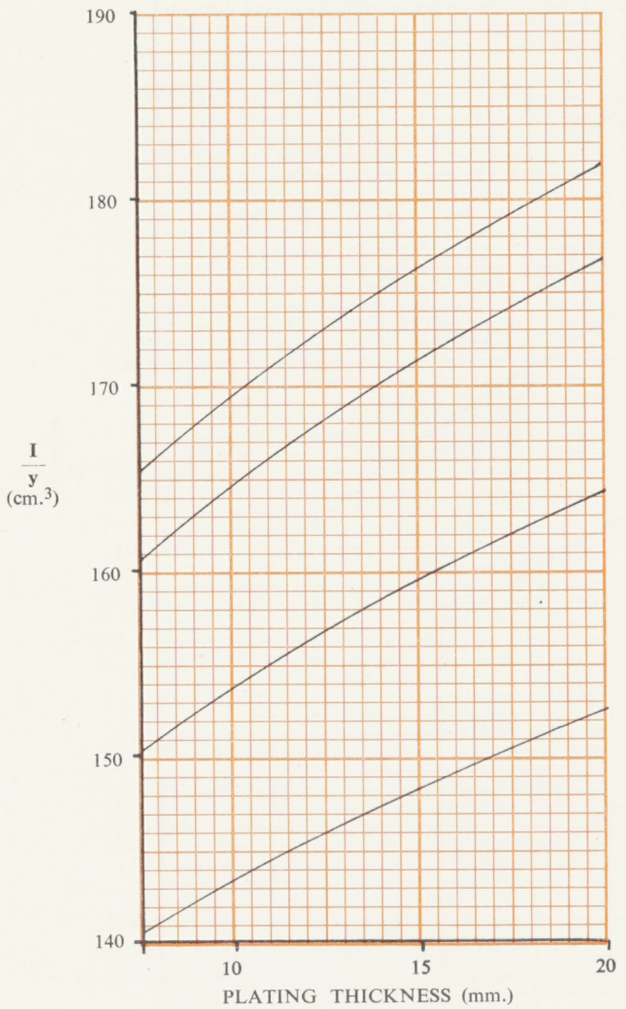


SECTION MODULUS AND AREA OF CHANNELS

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



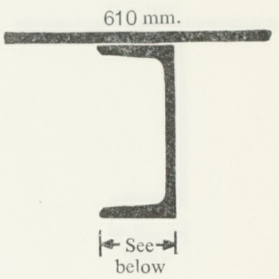
160 mm. DEPTH



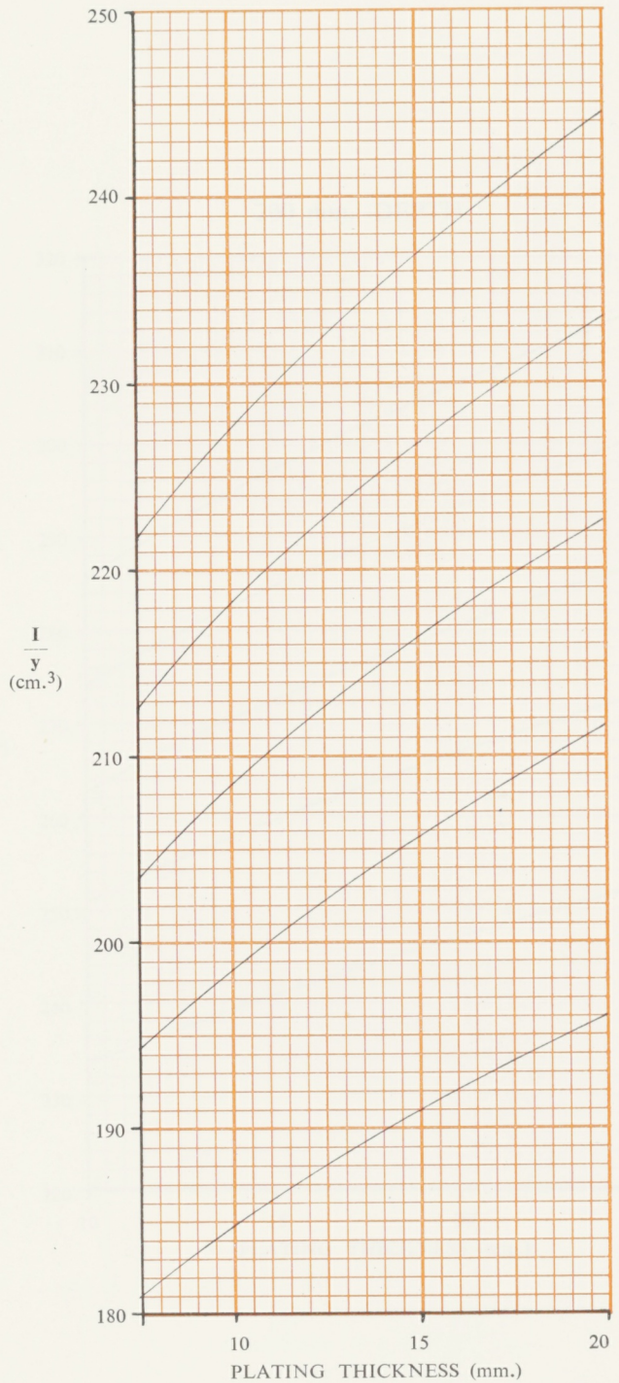
WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA (cm.2)
67	9,5	10,2	27,20
66	8,5	10,2	25,60
65	7,5	10,2	24,00
63,7	6,2	10,2	21,90

SECTION MODULUS AND AREA OF CHANNELS

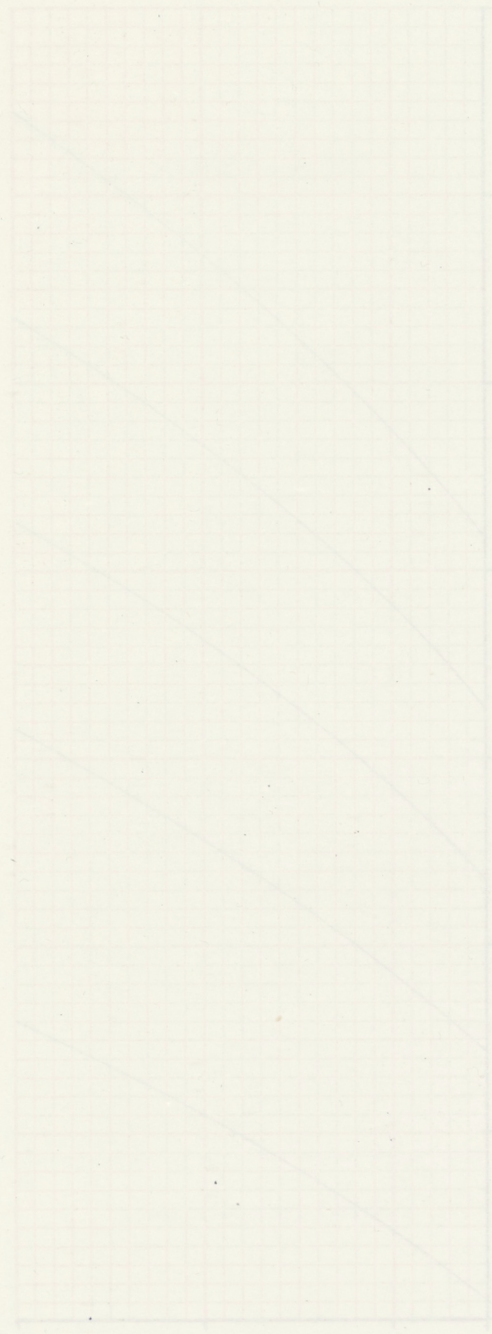
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



180 mm. DEPTH

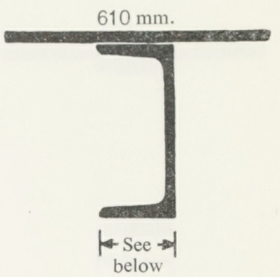


WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA (cm.2)
73	11	10,68	33,4
72	10	10,68	31,6
71	9	10,68	29,8
70	8	10,68	28,0
68,6	6,6	10,68	25,4

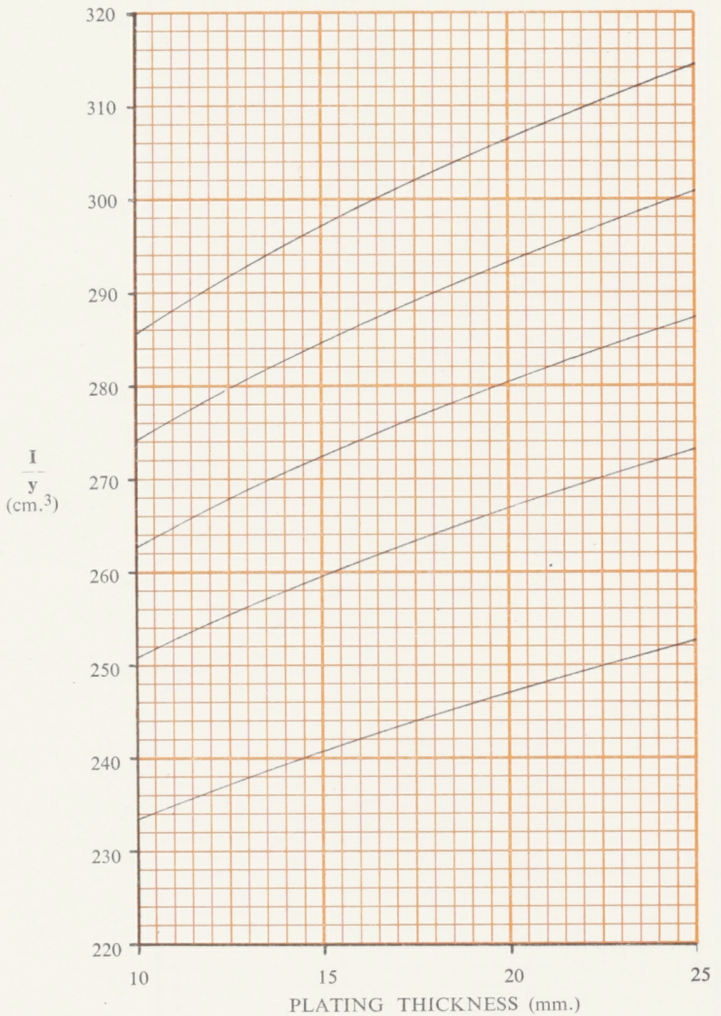


SECTION MODULUS AND AREA OF CHANNELS

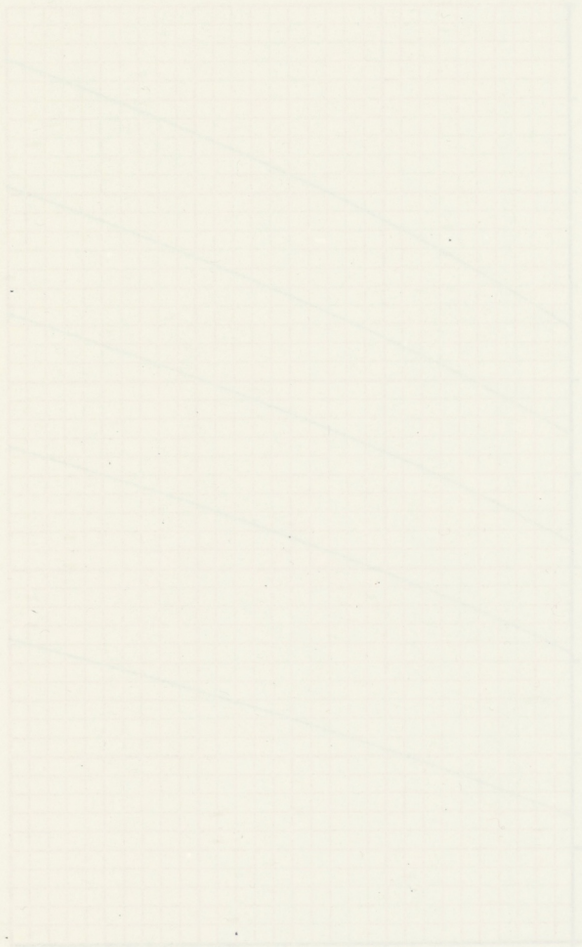
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



200 mm. DEPTH

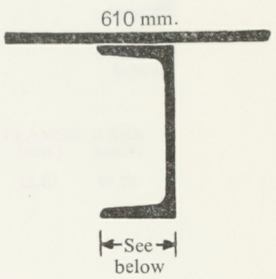


WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA (cm.2)
78	11,5	11,16	38,20
77	10,5	11,16	36,20
76	9,5	11,16	34,20
75	8,5	11,16	32,20
73,5	7,0	11,16	29,20

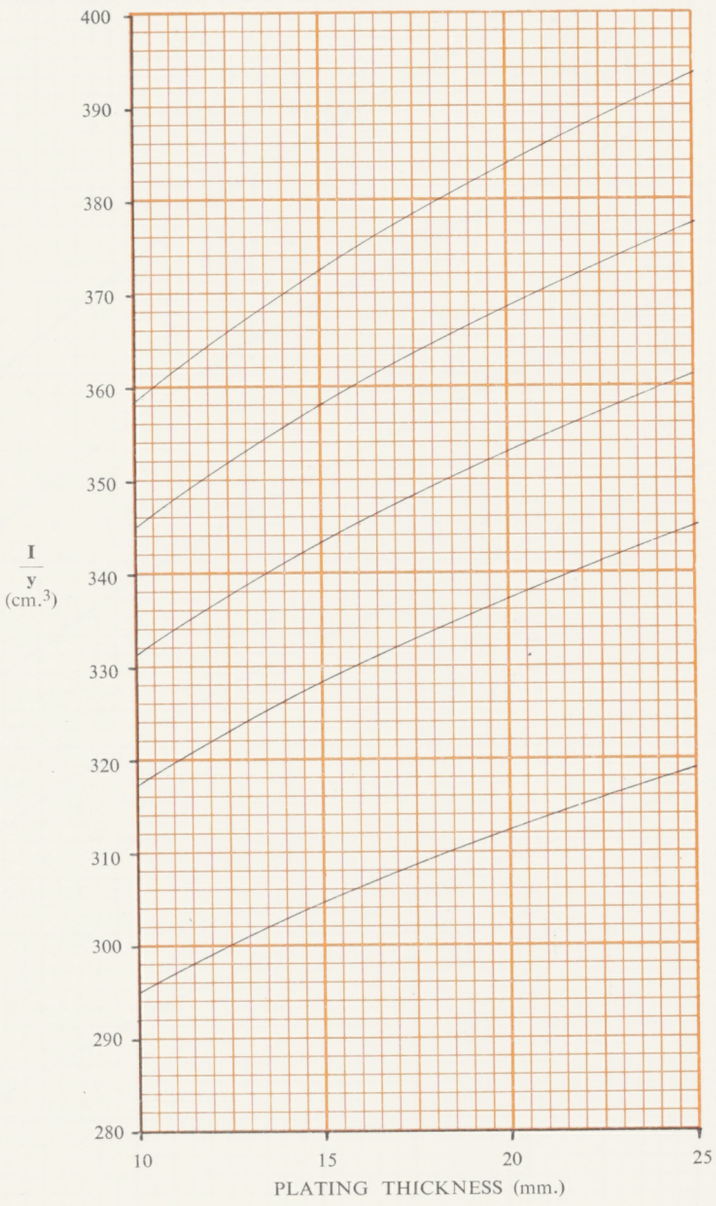


SECTION MODULUS AND AREA OF CHANNELS

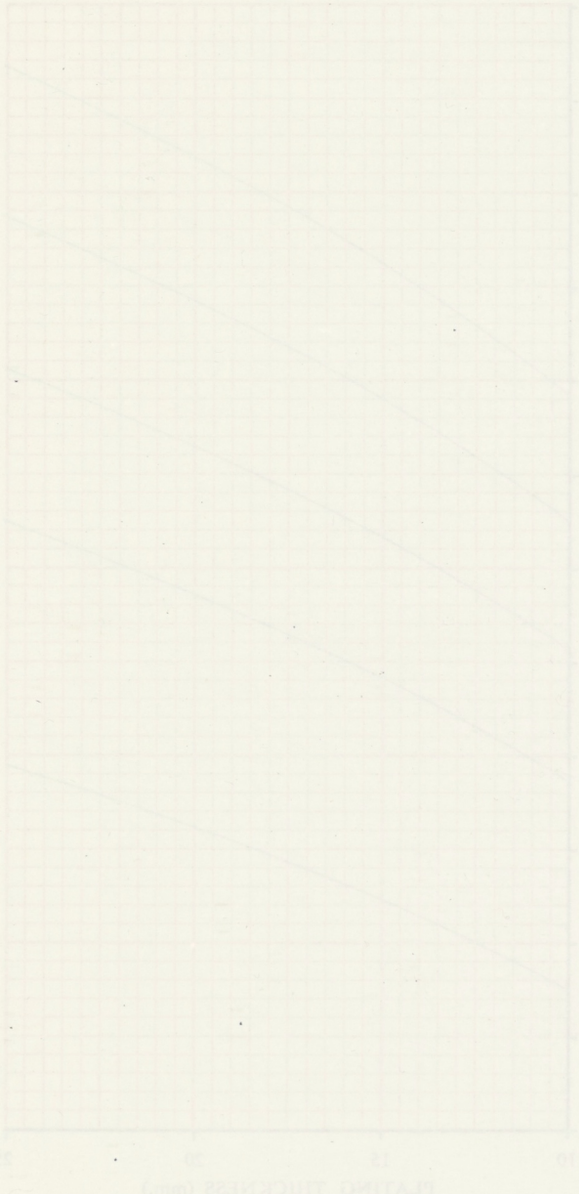
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



220 mm. DEPTH

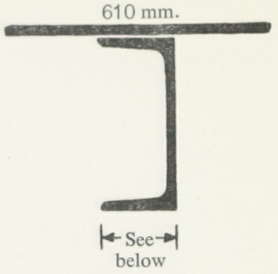


WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA (cm.2)
83	12	12,14	44,0
82	11	12,14	41,8
81	10	12,14	39,6
80		12,14	37,4
78,4	7,4	12,14	33,9

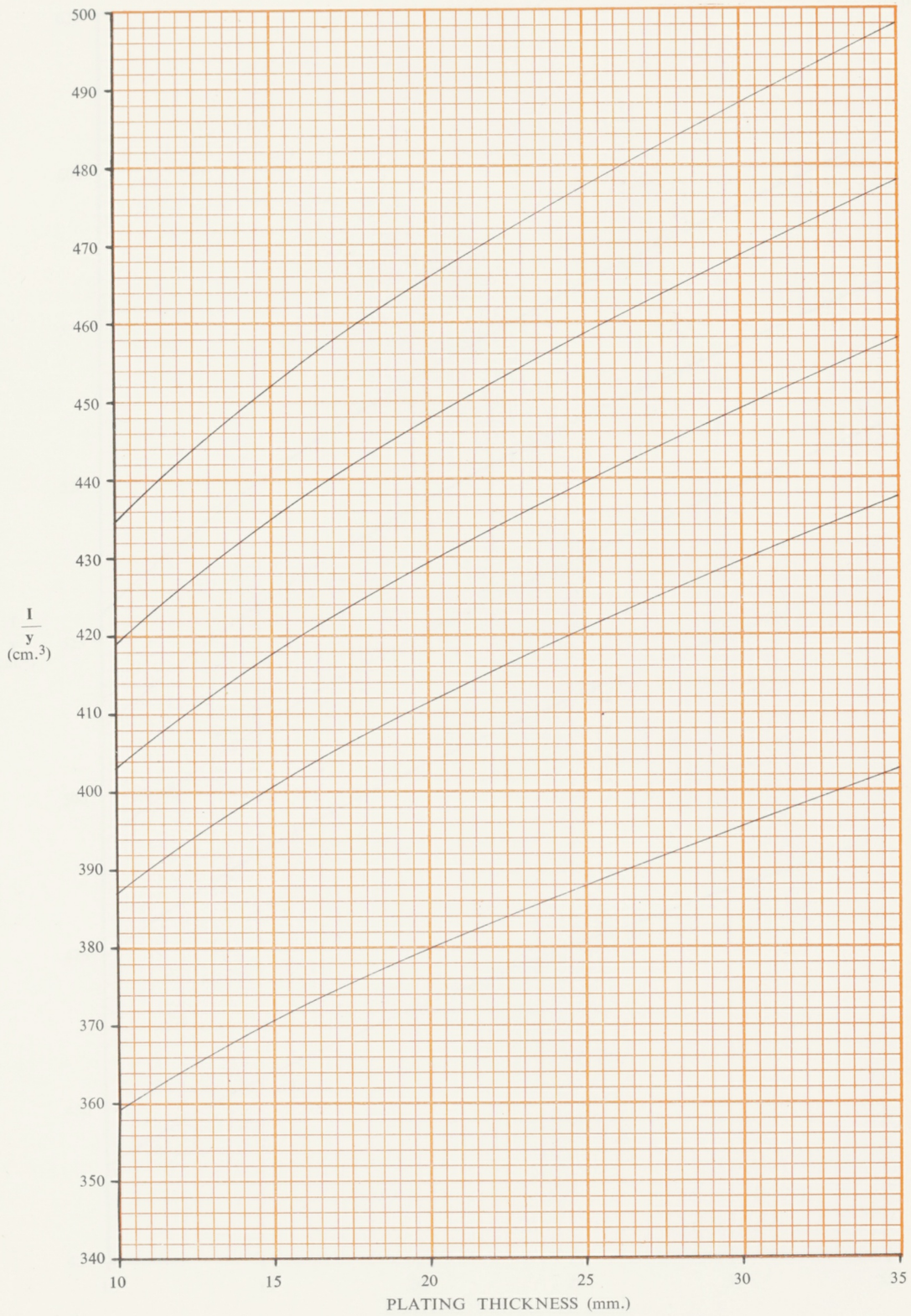


SECTION MODULUS AND AREA OF CHANNELS

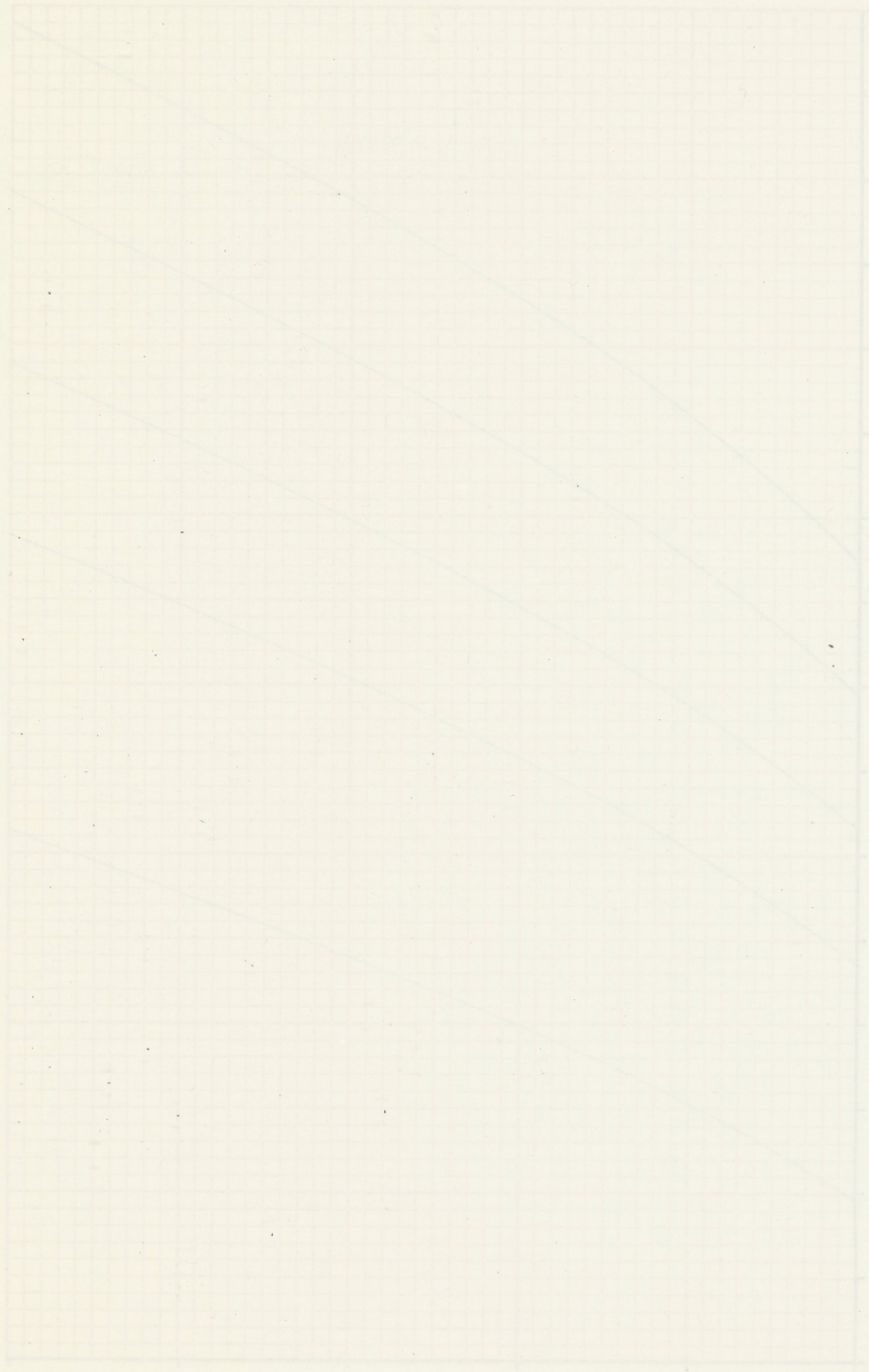
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



240 mm. DEPTH

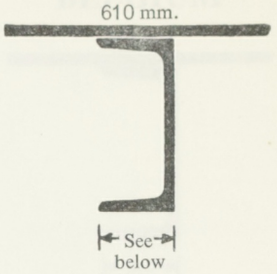


WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA (cm.2)
88	12,5	12,62	49,50
87	11,5	12,62	47,10
86	10,5	12,62	44,70
85	9,5	12,62	42,30
83,3	7,8	12,62	38,20

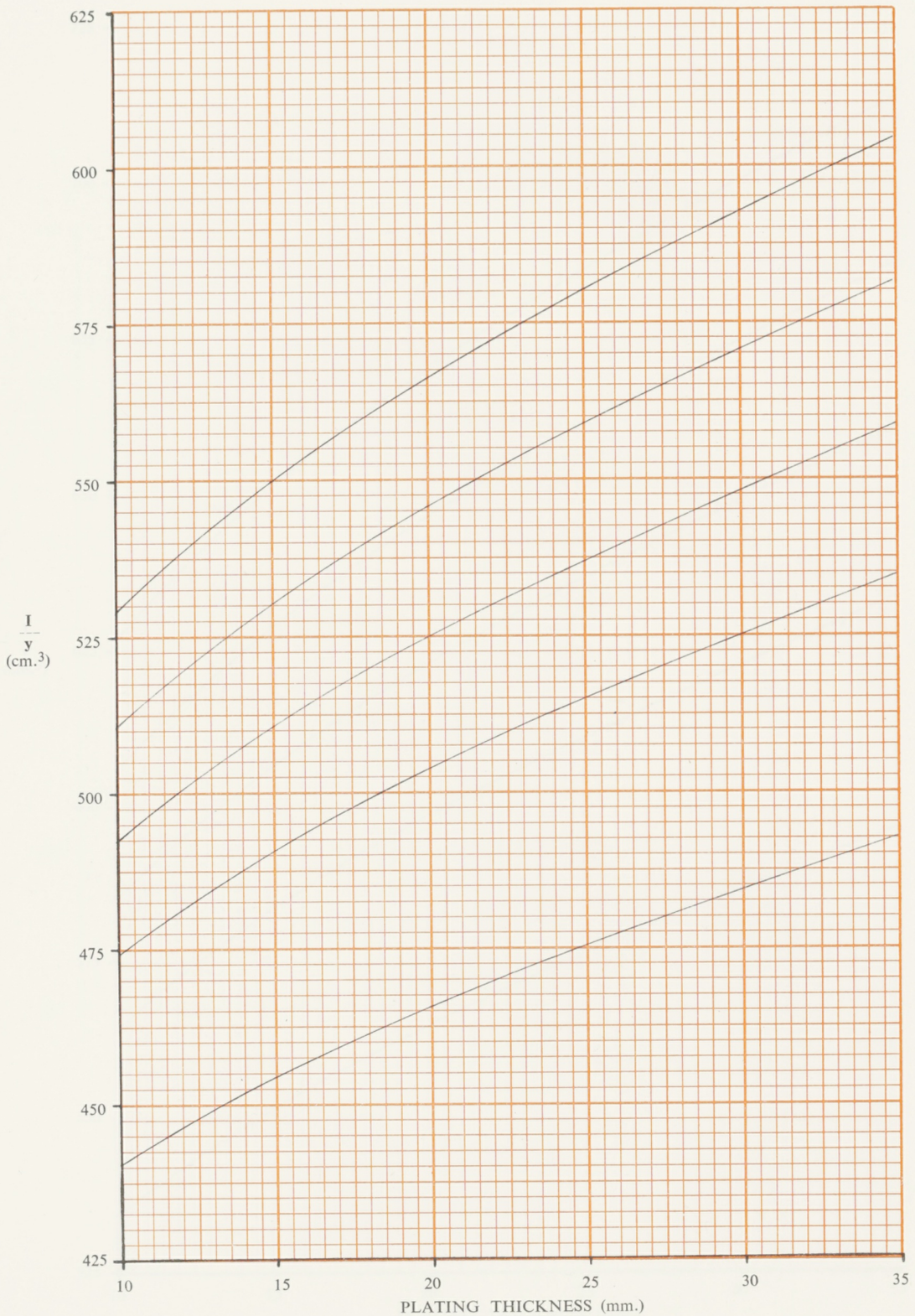


SECTION MODULUS AND AREA OF CHANNELS

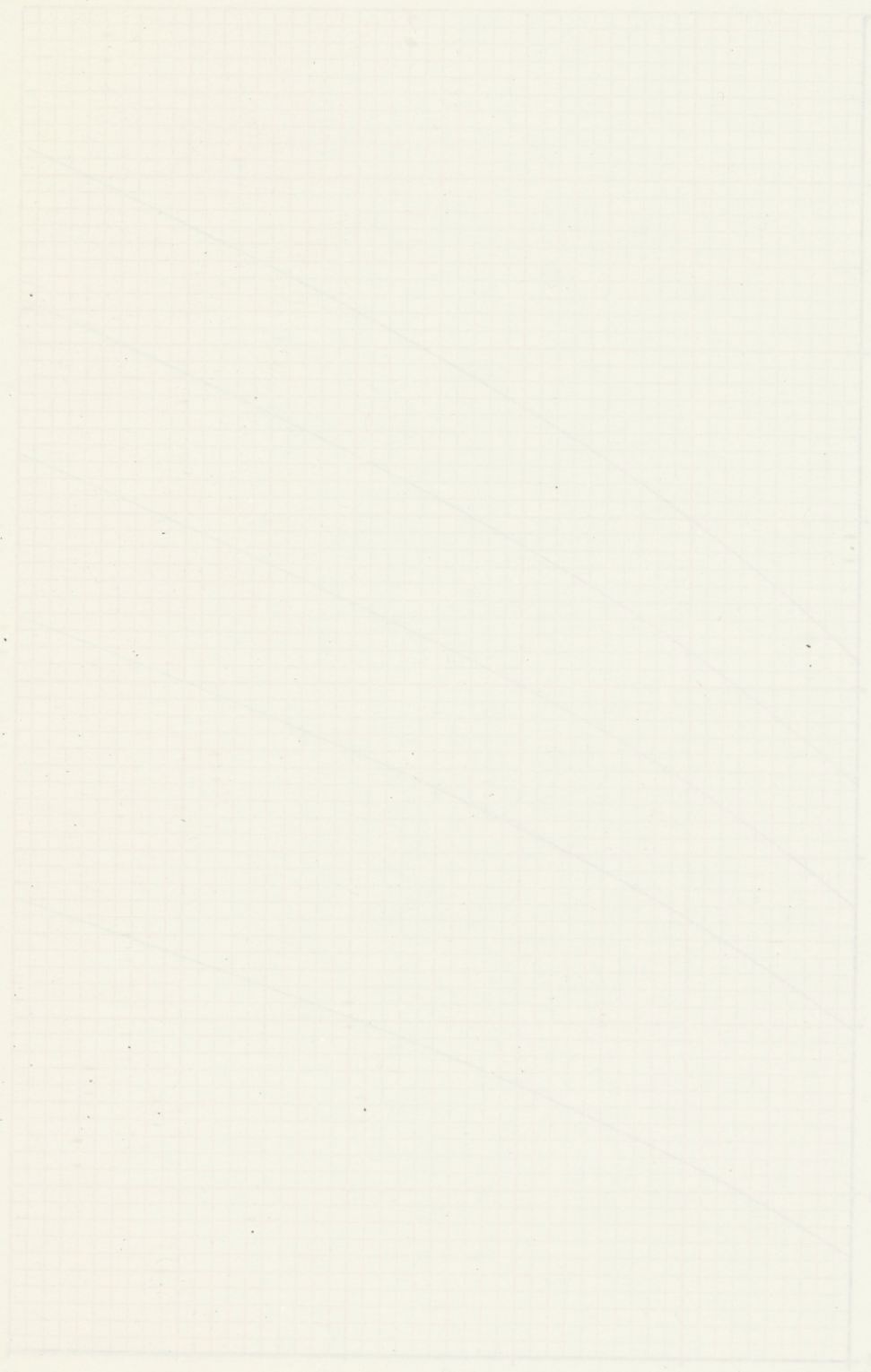
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



260 mm. DEPTH



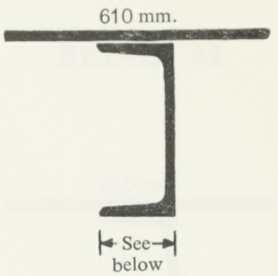
WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA (cm.2)
93	13	13,6	56,1
92	12	13,6	53,5
91	11	13,6	50,9
90	10	13,6	48,3
88,2	8,2	13,6	43,6



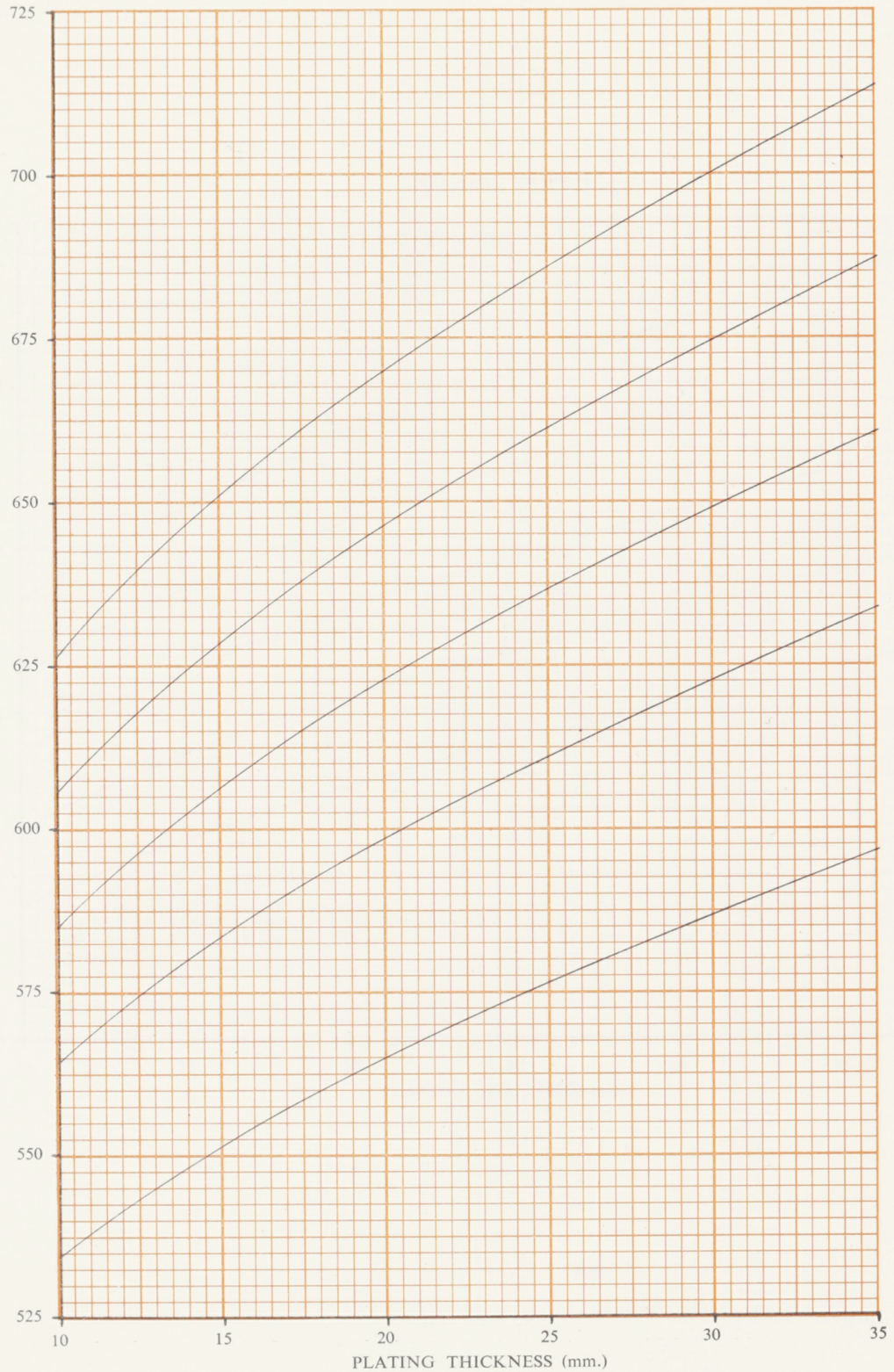
BELGIUM

SECTION MODULUS AND AREA OF CHANNELS

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



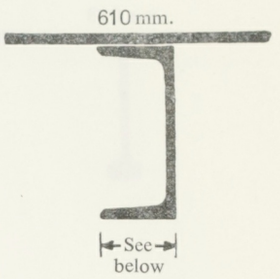
280 mm. DEPTH



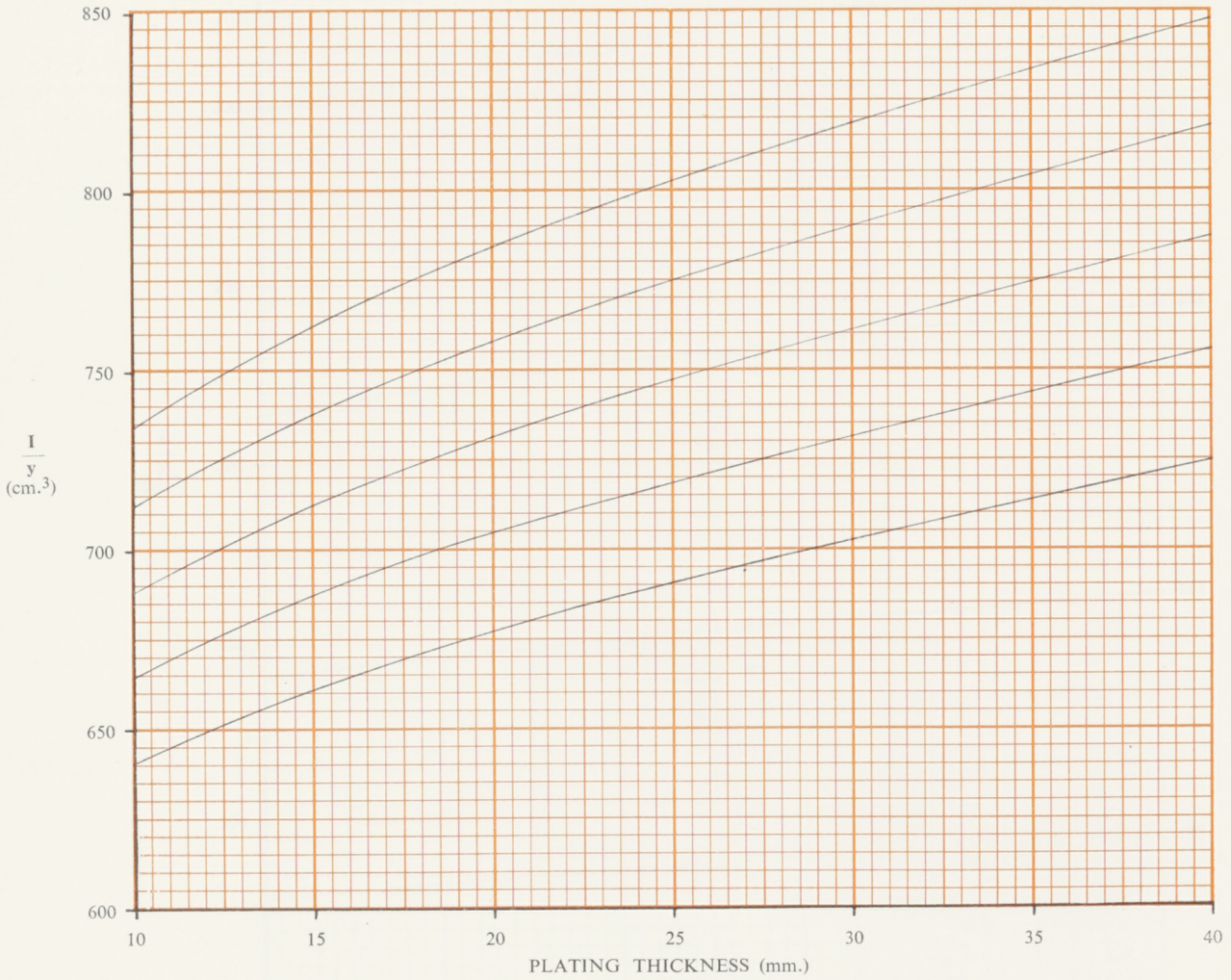
WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA (cm.2)
98	13	14,6	61,80
97	12	14,6	59,00
96	11	14,6	56,20
95	10	14,6	53,40
93,6	8,6	14,6	49,50

SECTION MODULUS AND AREA OF CHANNELS

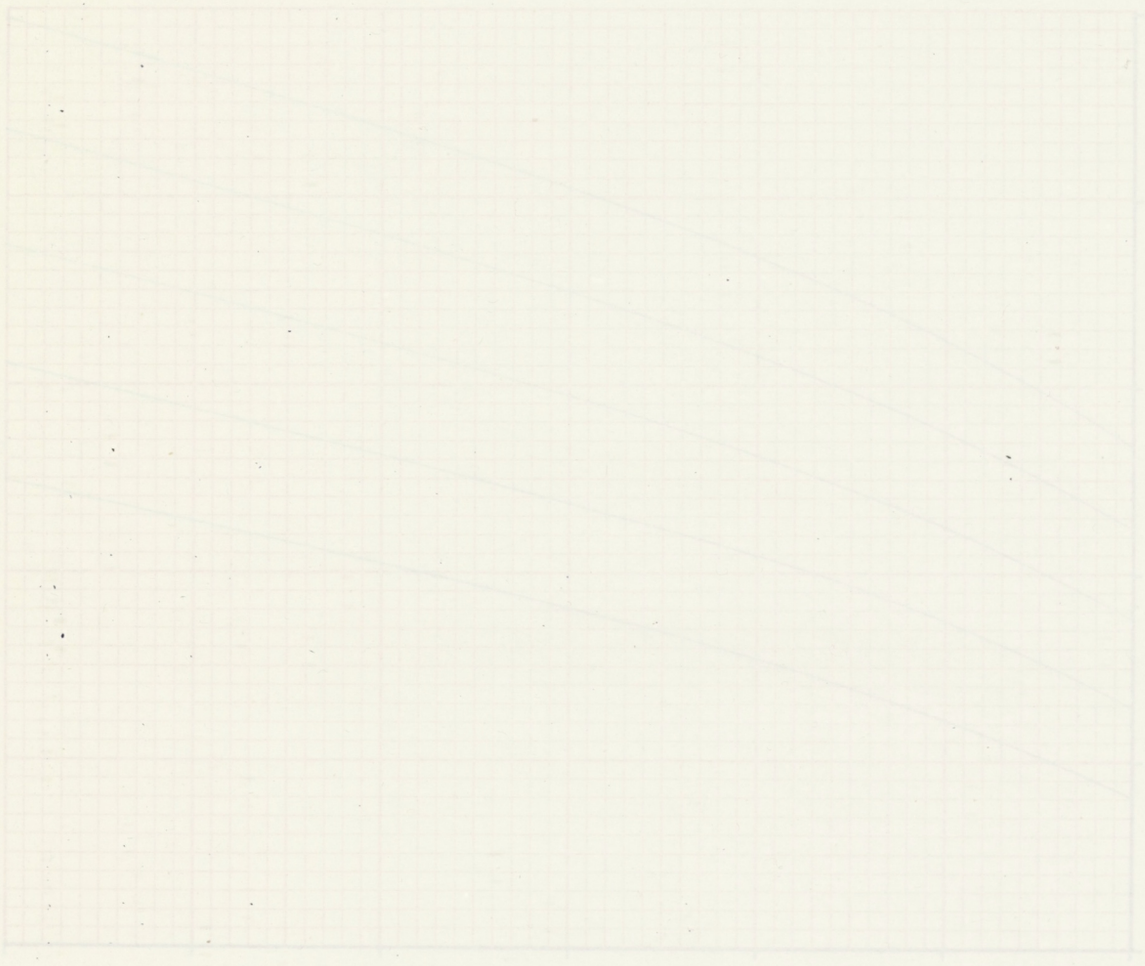
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



300 mm. DEPTH

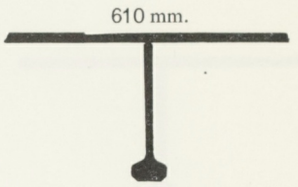


WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA (cm.2)
103	13	15,6	67,8
102	12	15,6	64,8
101	11	15,6	61,8
100	10	15,6	58,8
99	9	15,6	55,8

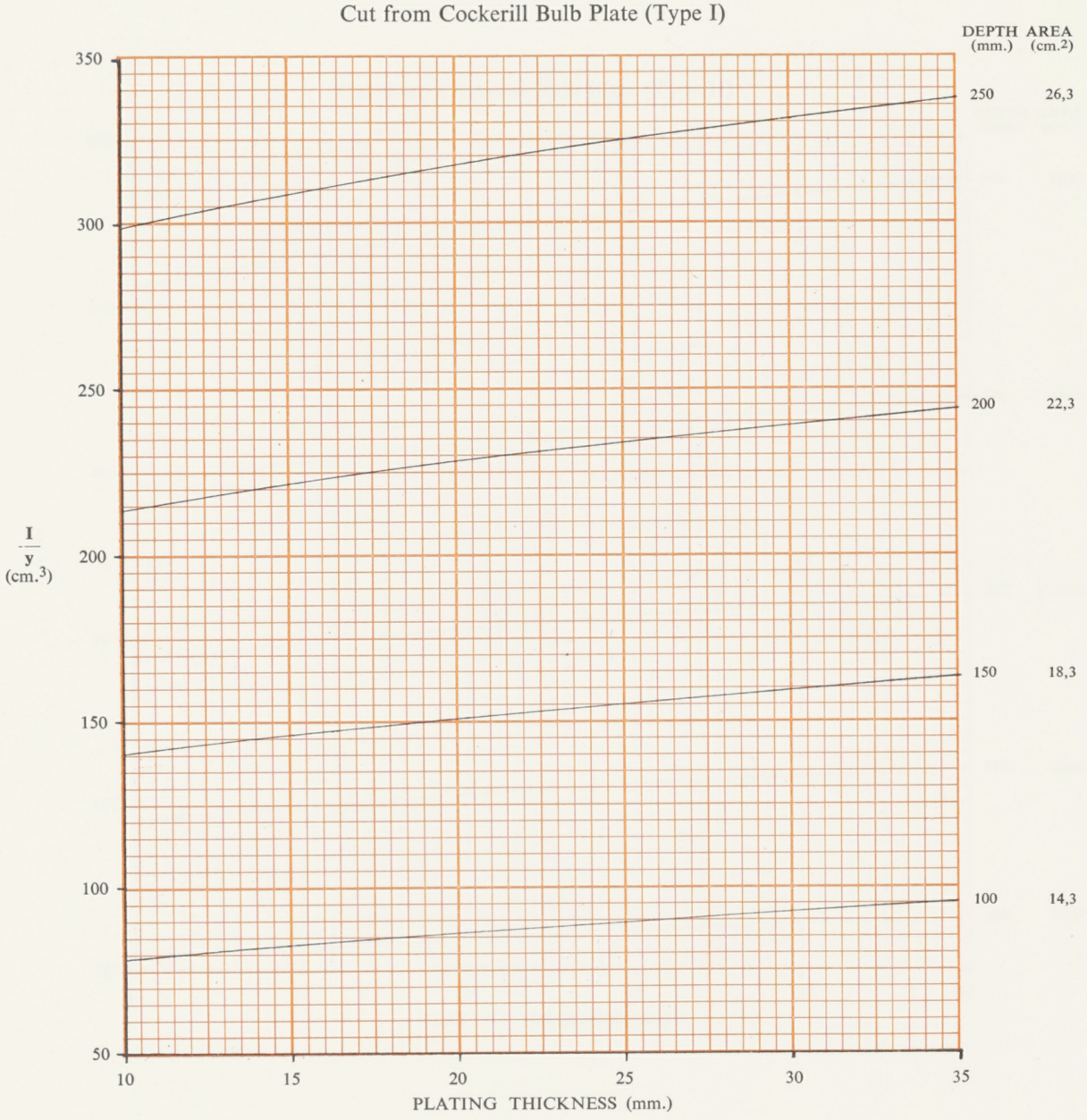


SECTION MODULUS AND AREA OF DOUBLE-SIDED BULB PLATES (COCKERILL)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

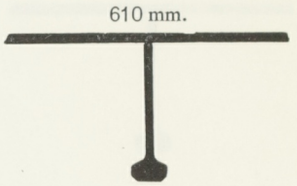


Cut from Cockerill Bulb Plate (Type I)

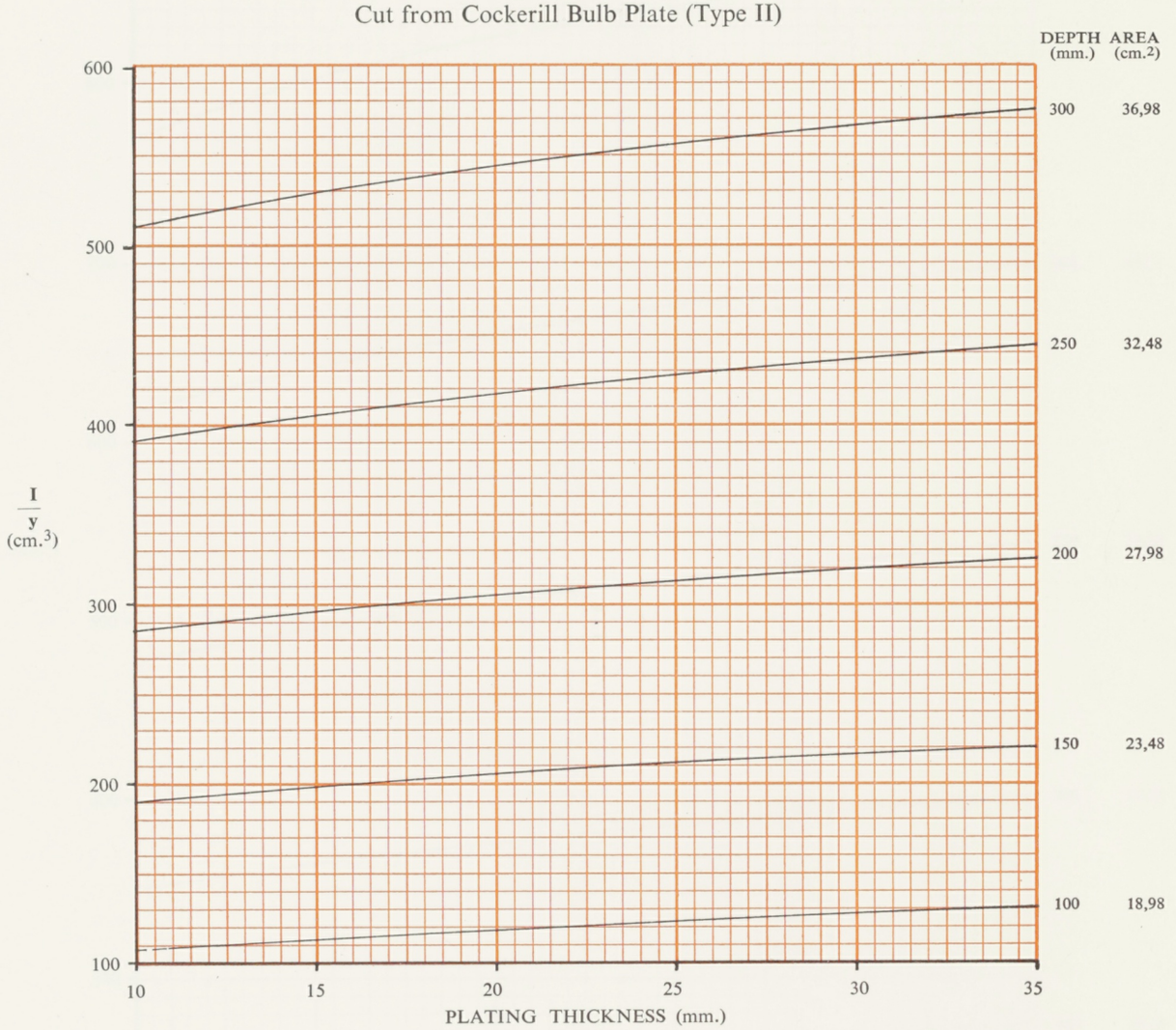


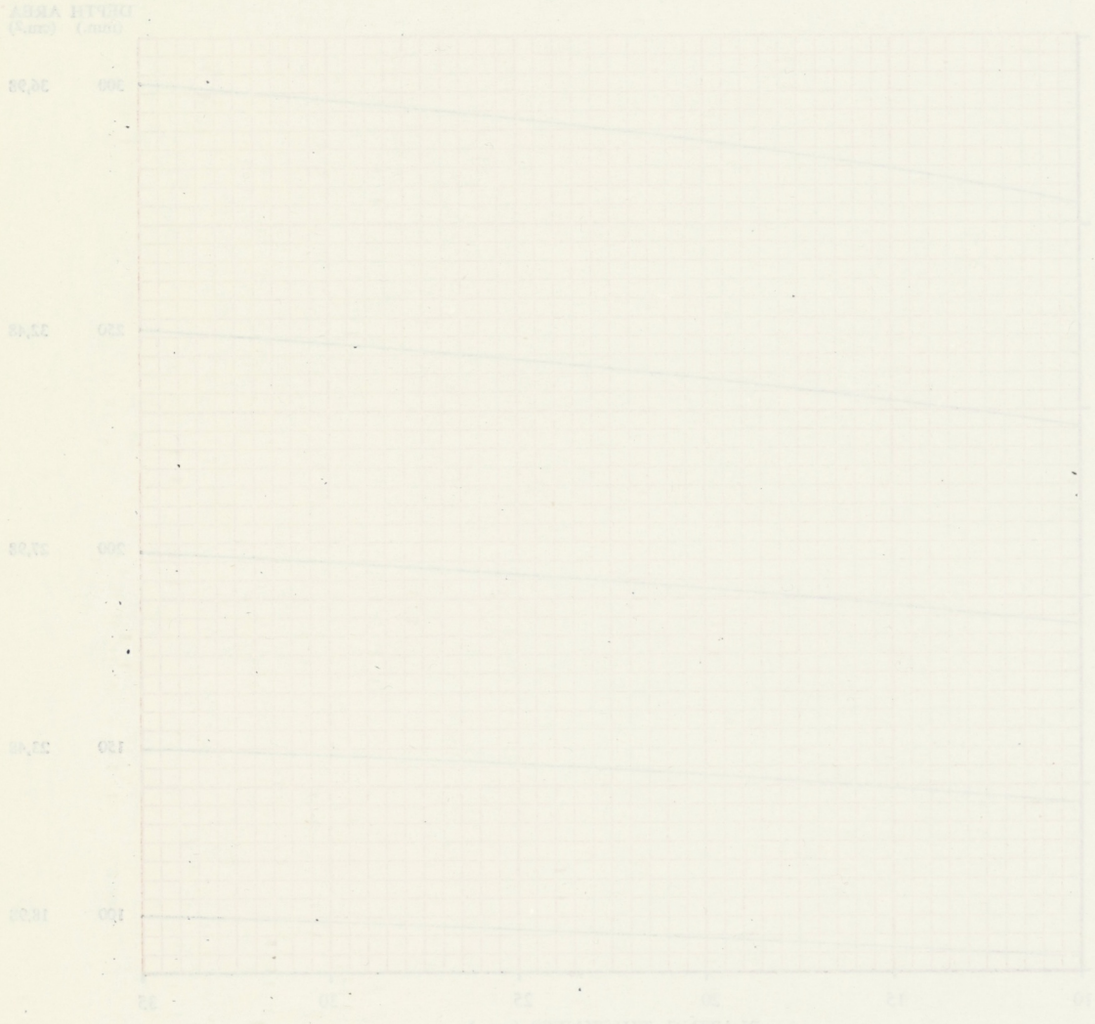
SECTION MODULUS AND AREA OF DOUBLE-SIDED BULB PLATES (COCKERILL)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



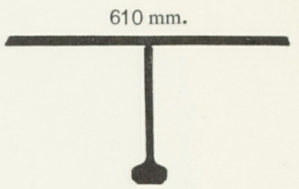
Cut from Cockerill Bulb Plate (Type II)



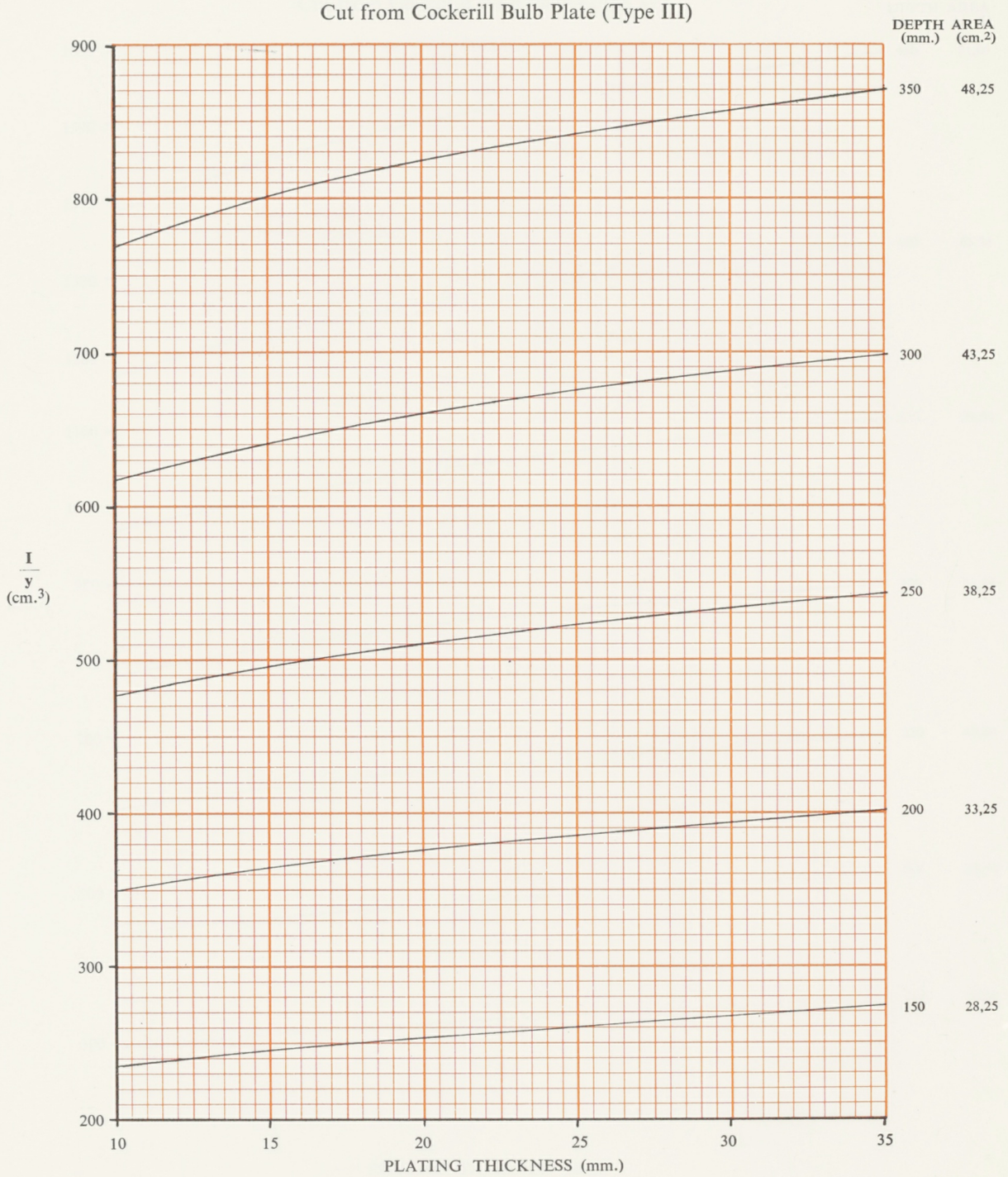


SECTION MODULUS AND AREA OF DOUBLE-SIDED BULB PLATES (COCKERILL)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

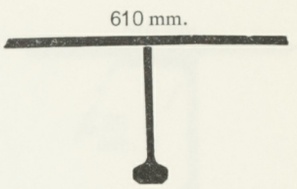


Cut from Cockerill Bulb Plate (Type III)

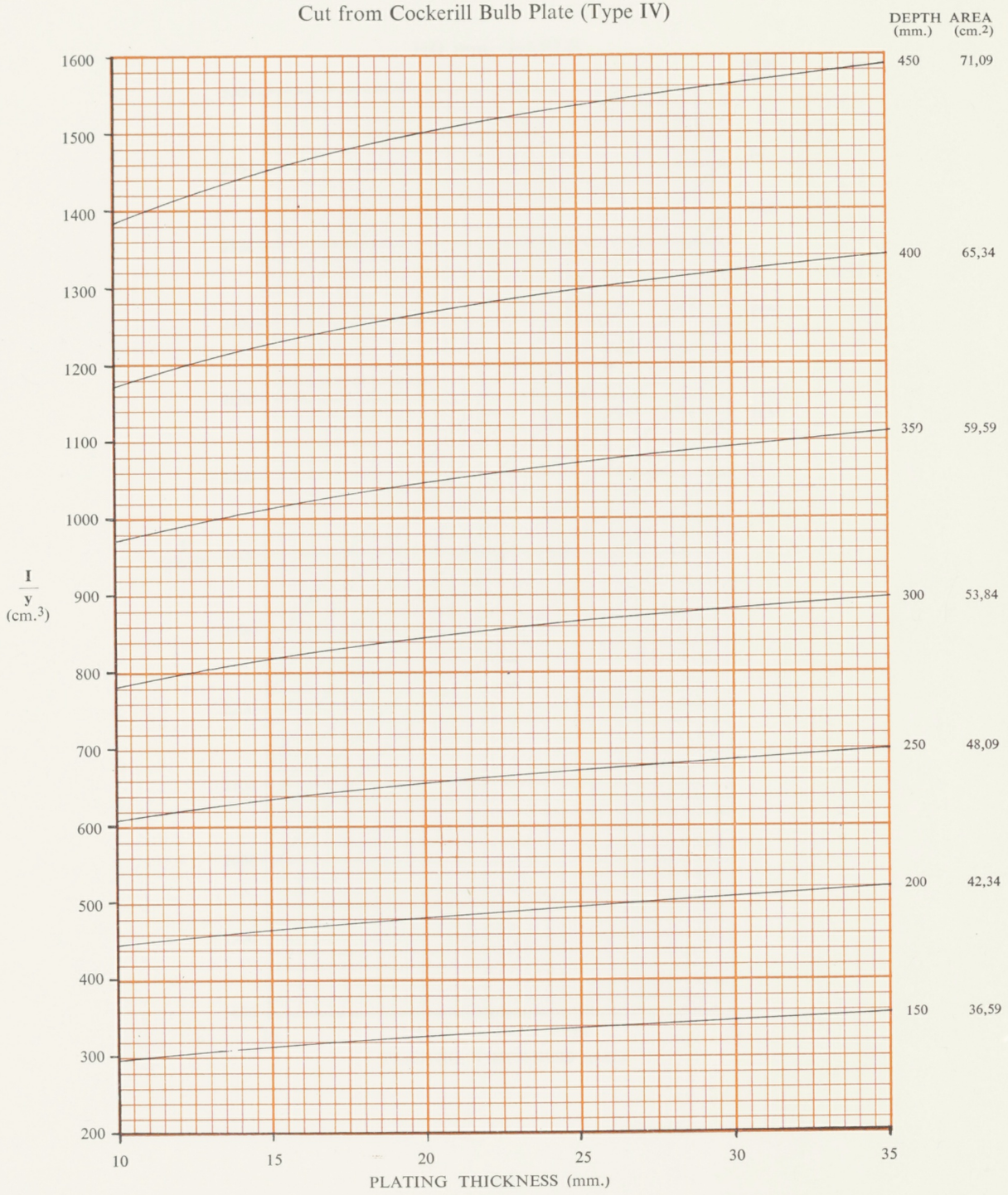


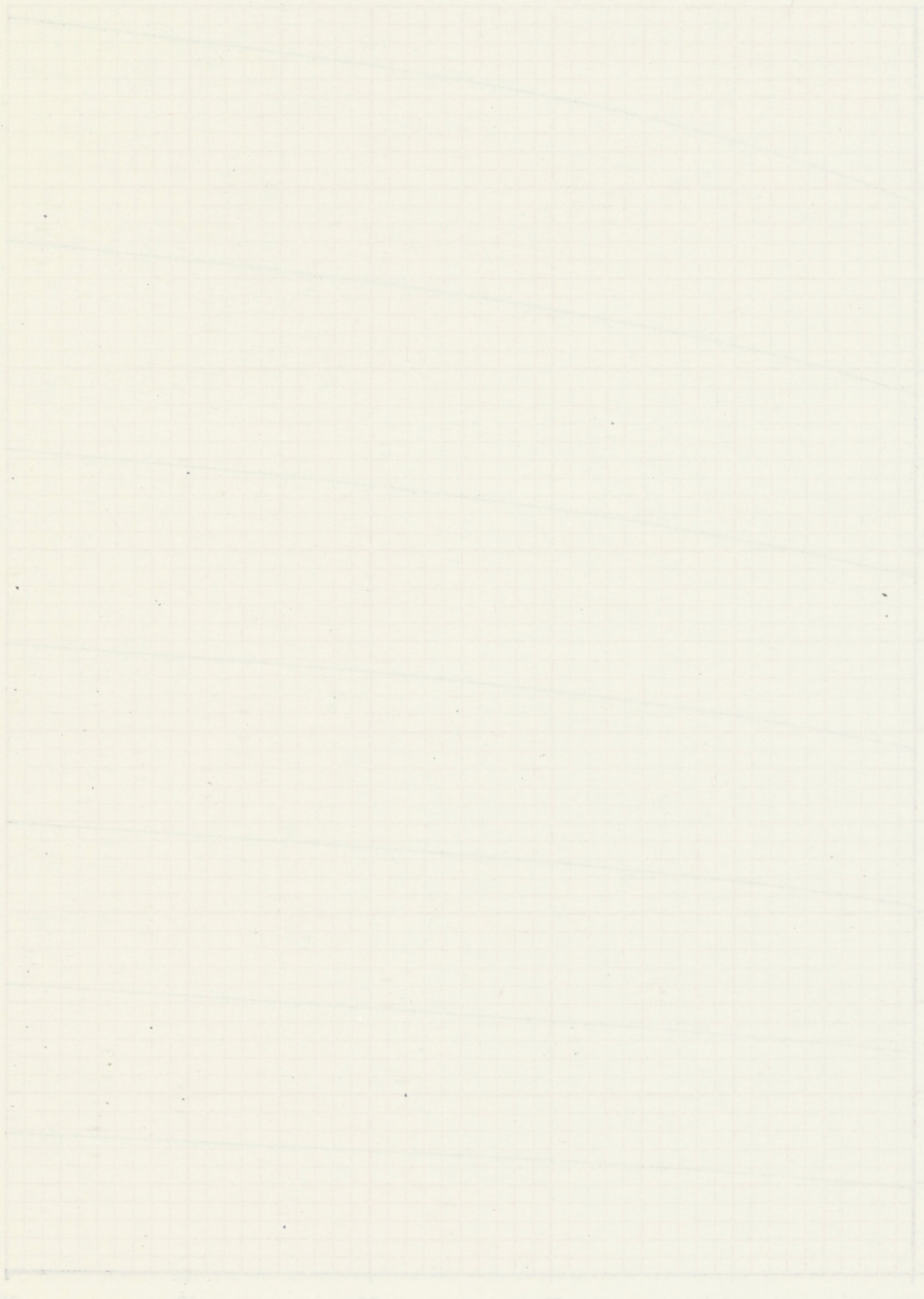
SECTION MODULUS AND AREA OF DOUBLE-SIDED BULB PLATES (COCKERILL)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



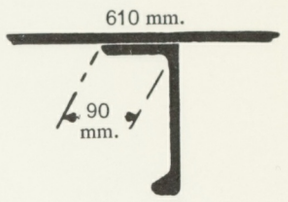
Cut from Cockerill Bulb Plate (Type IV)





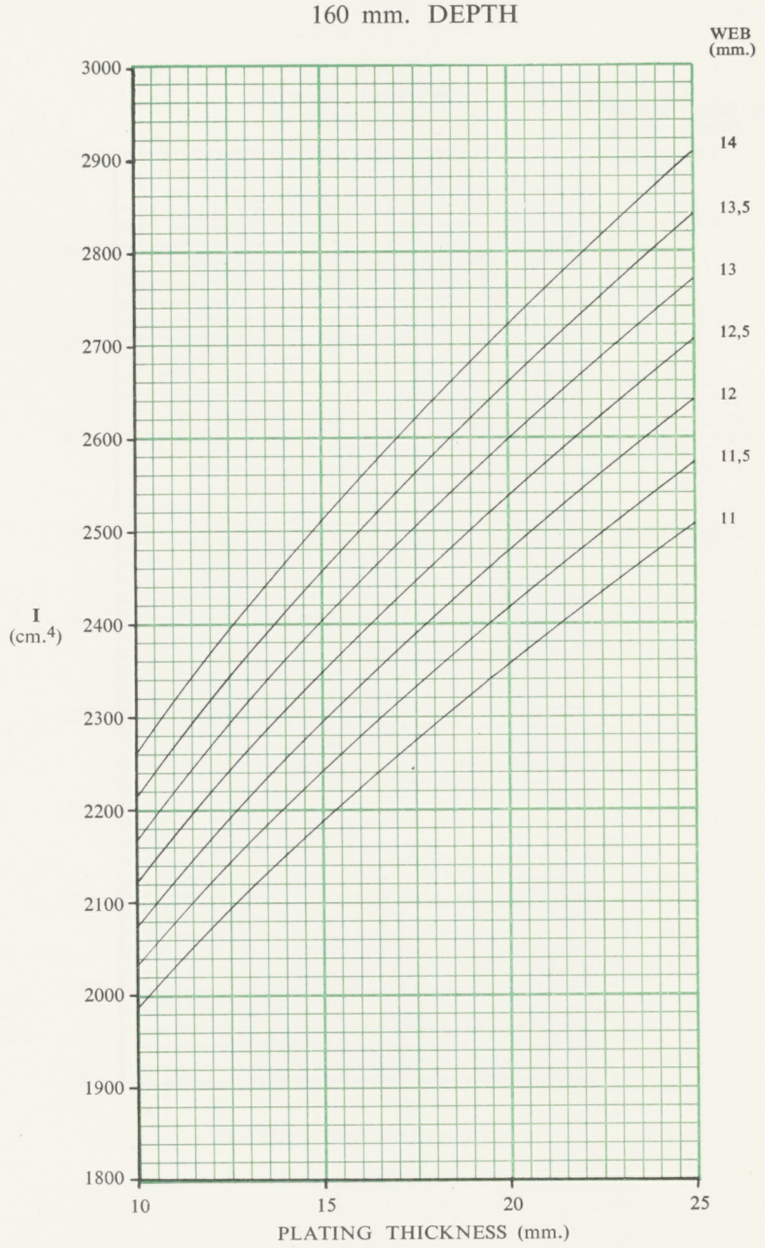
MOMENT OF INERTIA OF BULB ANGLES

(WITH PLATING)



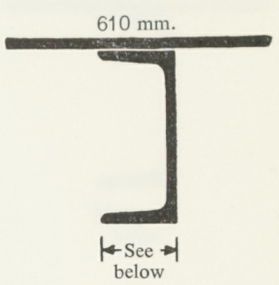
90 mm. FLANGE

160 mm. DEPTH



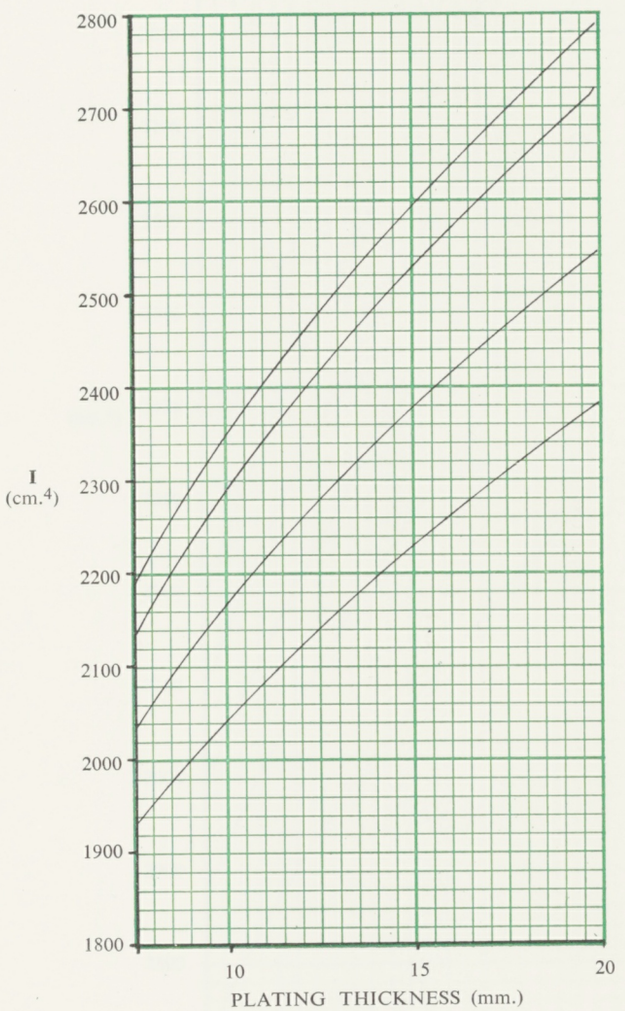
MOMENT OF INERTIA OF CHANNELS

(WITH PLATING)



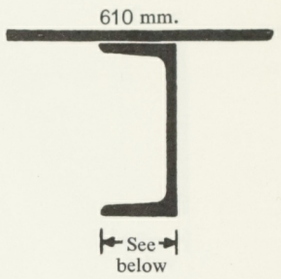
160 mm. DEPTH

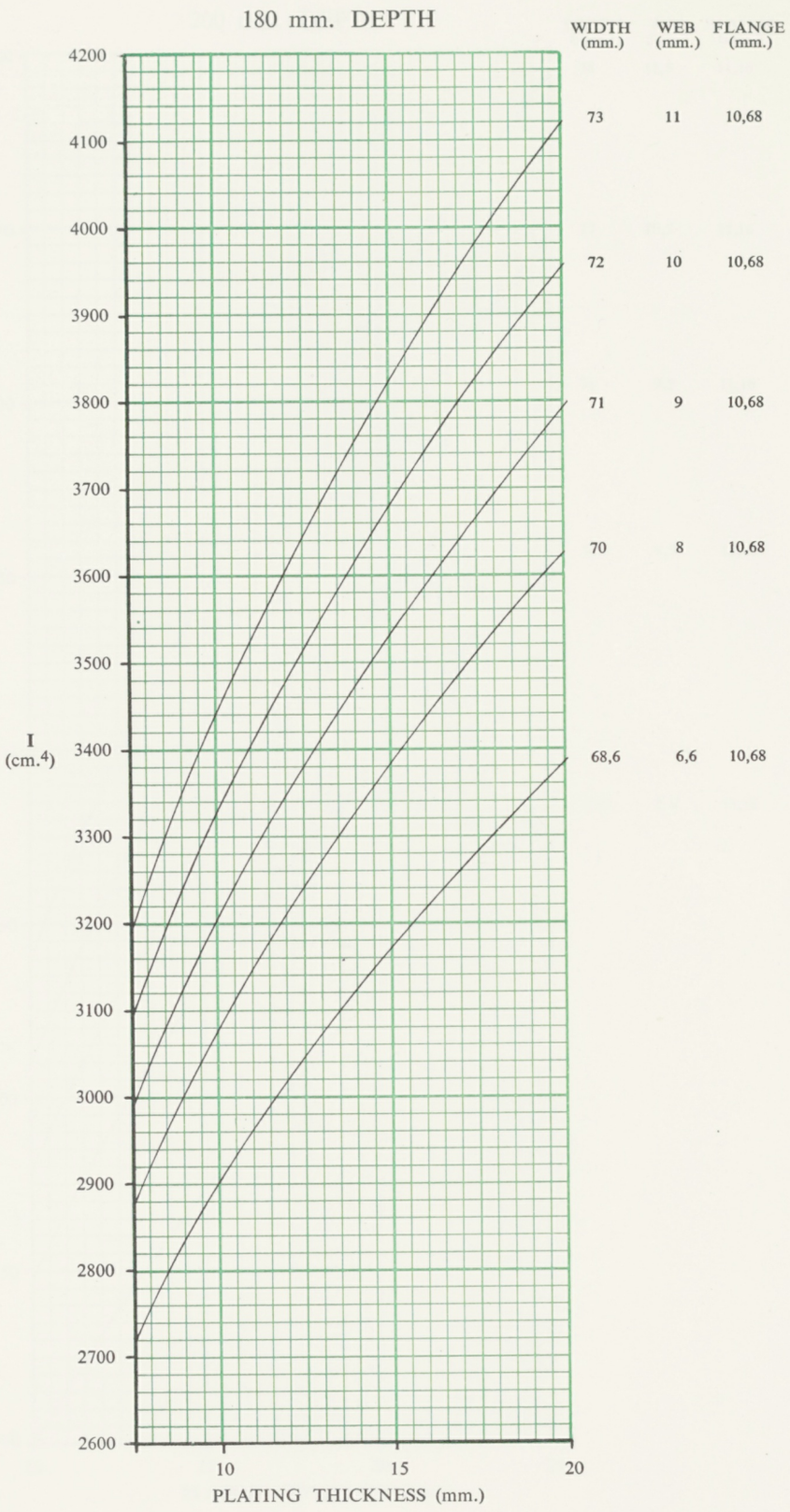
WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)
67	9,5	10,2
66	8,5	10,2
65	7,5	10,2
63,70	6,2	10,2



MOMENT OF INERTIA OF CHANNELS

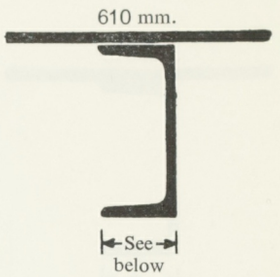
(WITH PLATING)





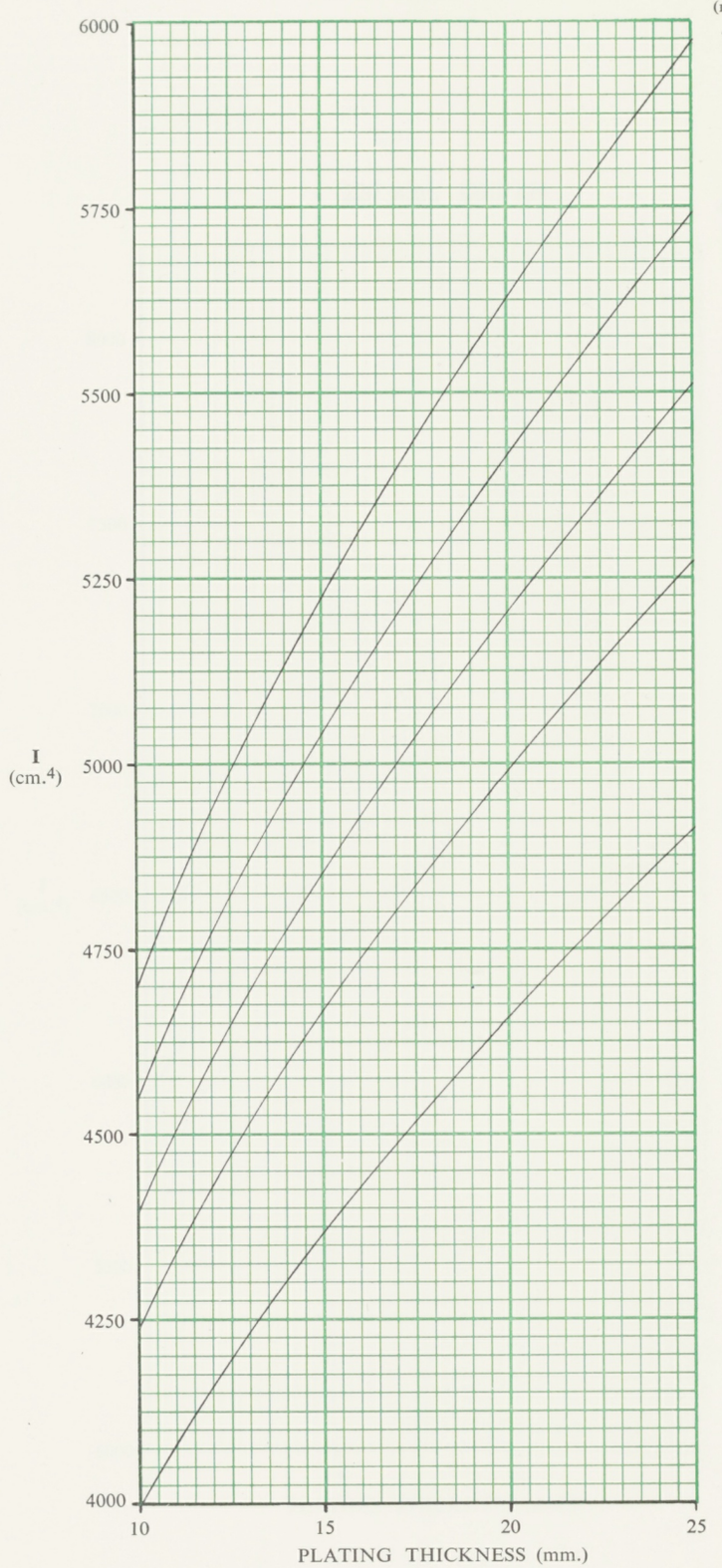
MOMENT OF INERTIA OF CHANNELS

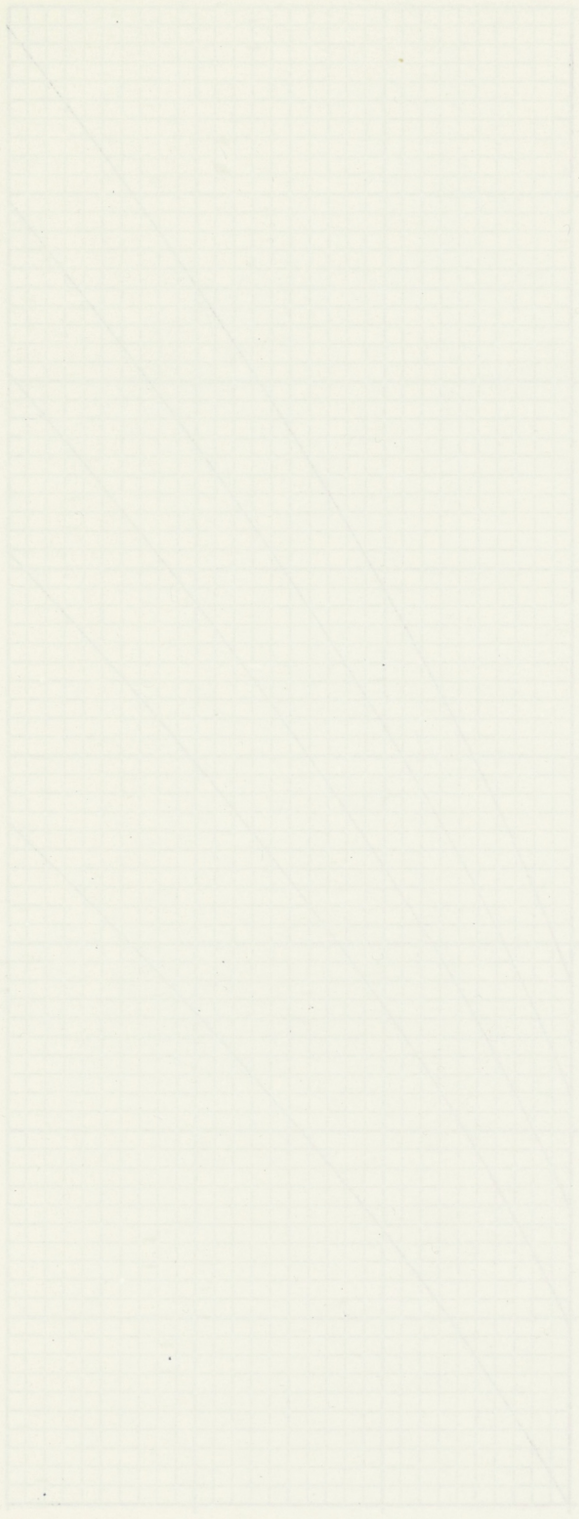
(WITH PLATING)



200 mm. DEPTH

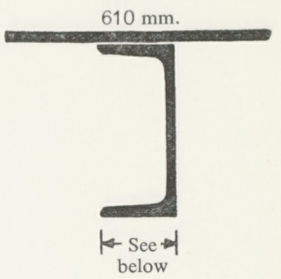
WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)
78	11,5	11,16
77	10,5	11,16
76	9,5	11,16
75	8,5	11,16
73,5	7,0	11,16



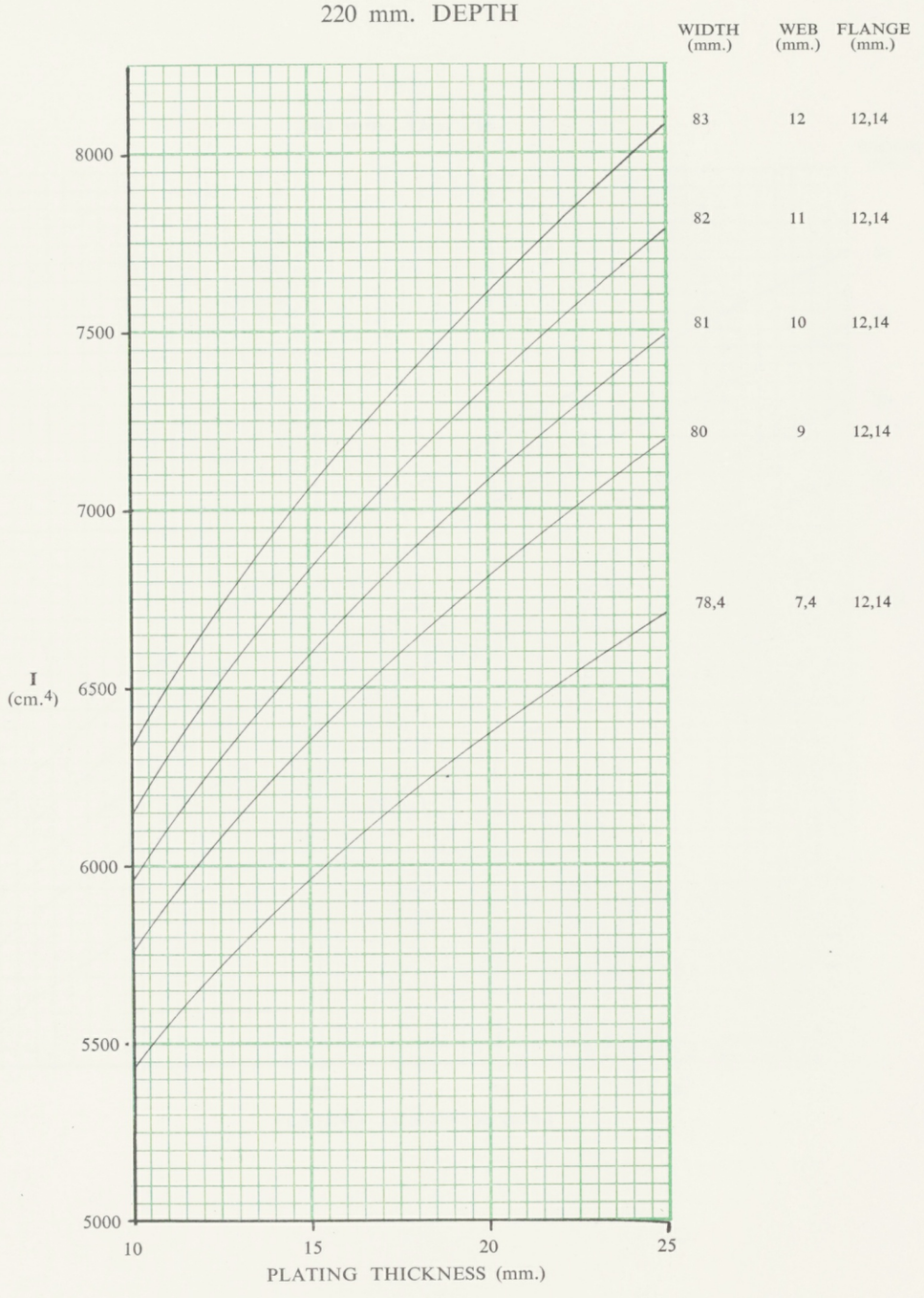


MOMENT OF INERTIA OF CHANNELS

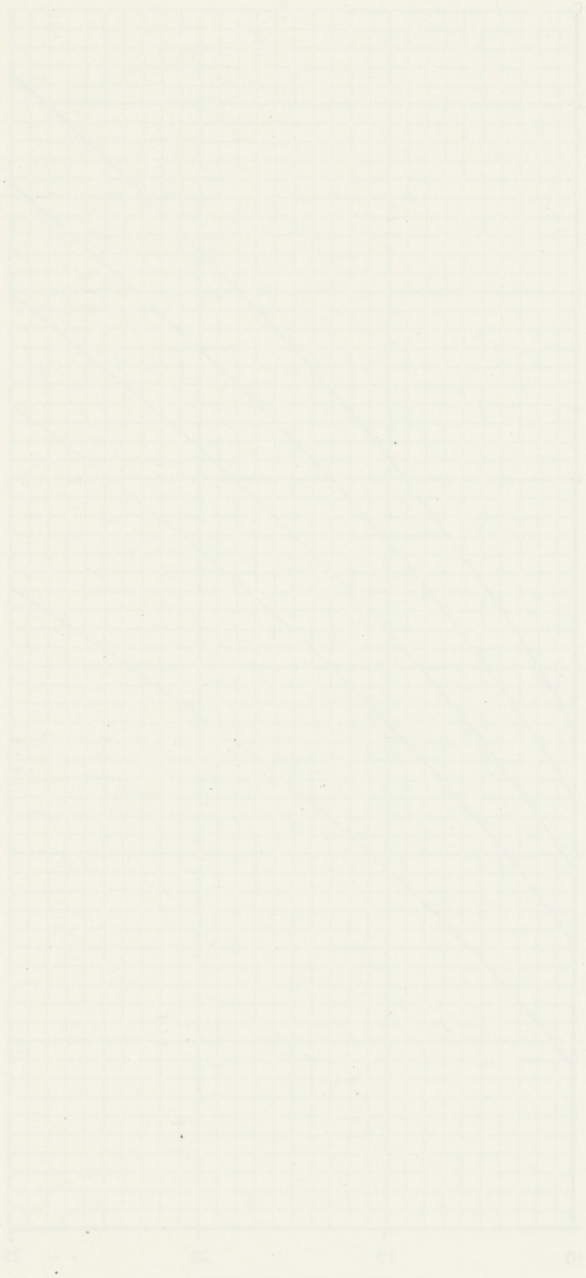
(WITH PLATING)



220 mm. DEPTH

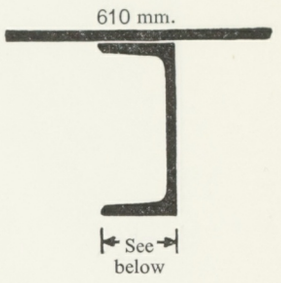


WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)
83	12	12,14
82	11	12,14
81	10	12,14
80	9	12,14
78,4	7,4	12,14

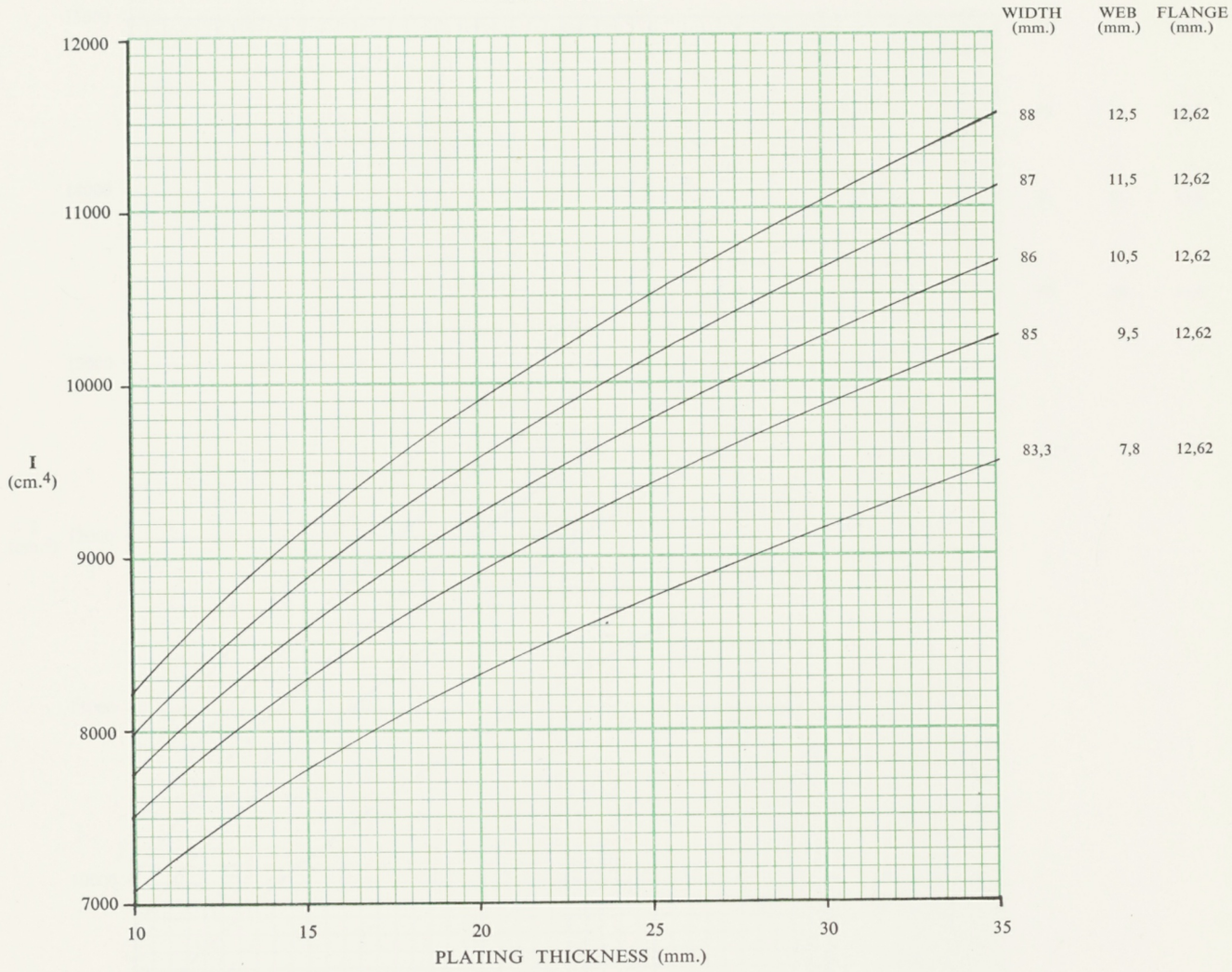


MOMENT OF INERTIA OF CHANNELS

(WITH PLATING)



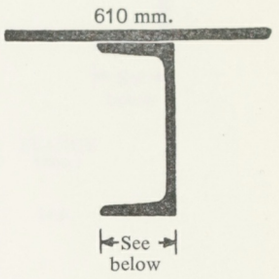
240 mm. DEPTH



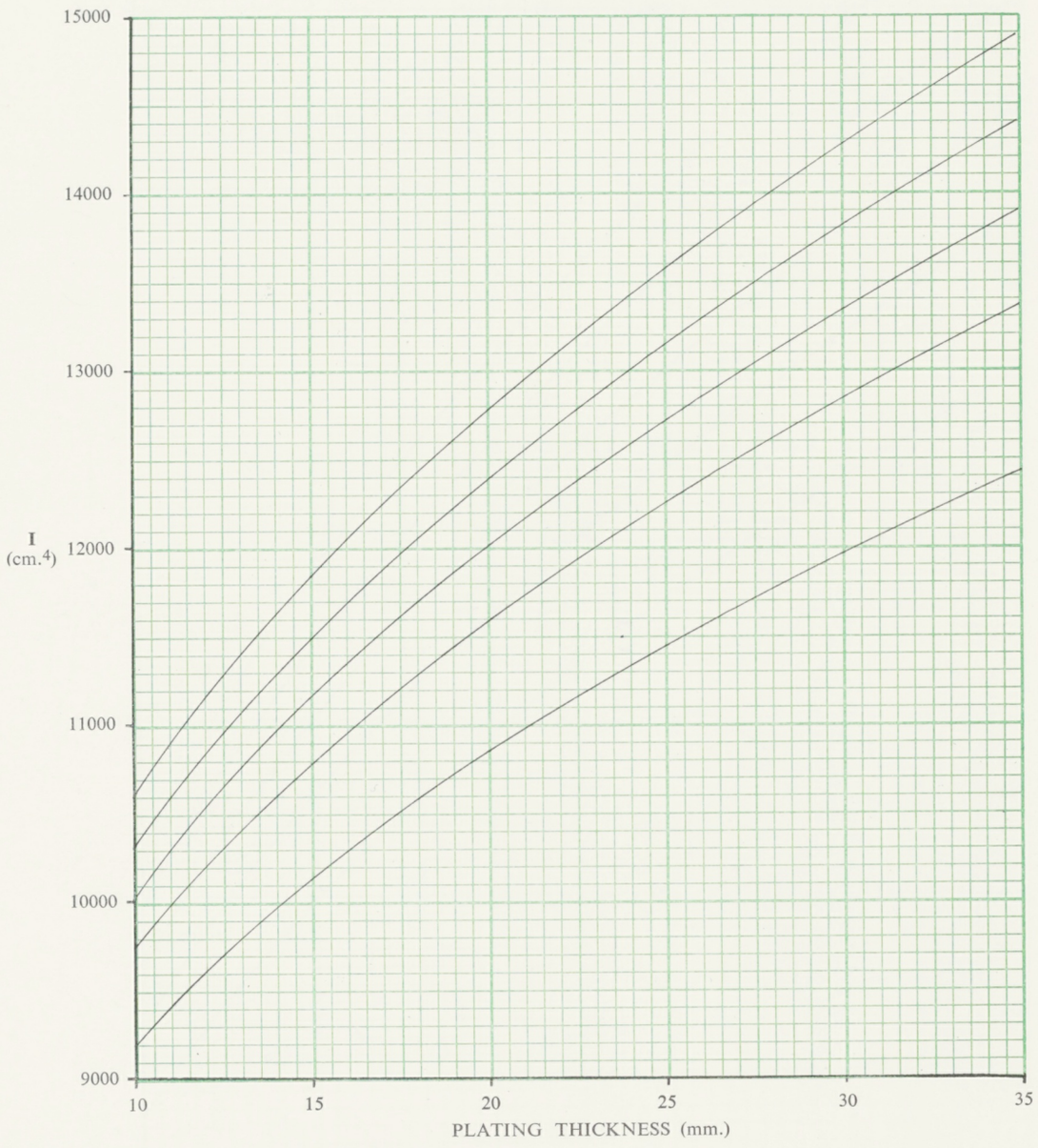
WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)
88	12,5	12,62
87	11,5	12,62
86	10,5	12,62
85	9,5	12,62
83,3	7,8	12,62

MOMENT OF INERTIA OF CHANNELS

(WITH PLATING)



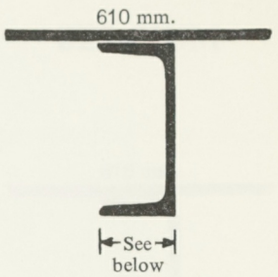
260 mm. DEPTH



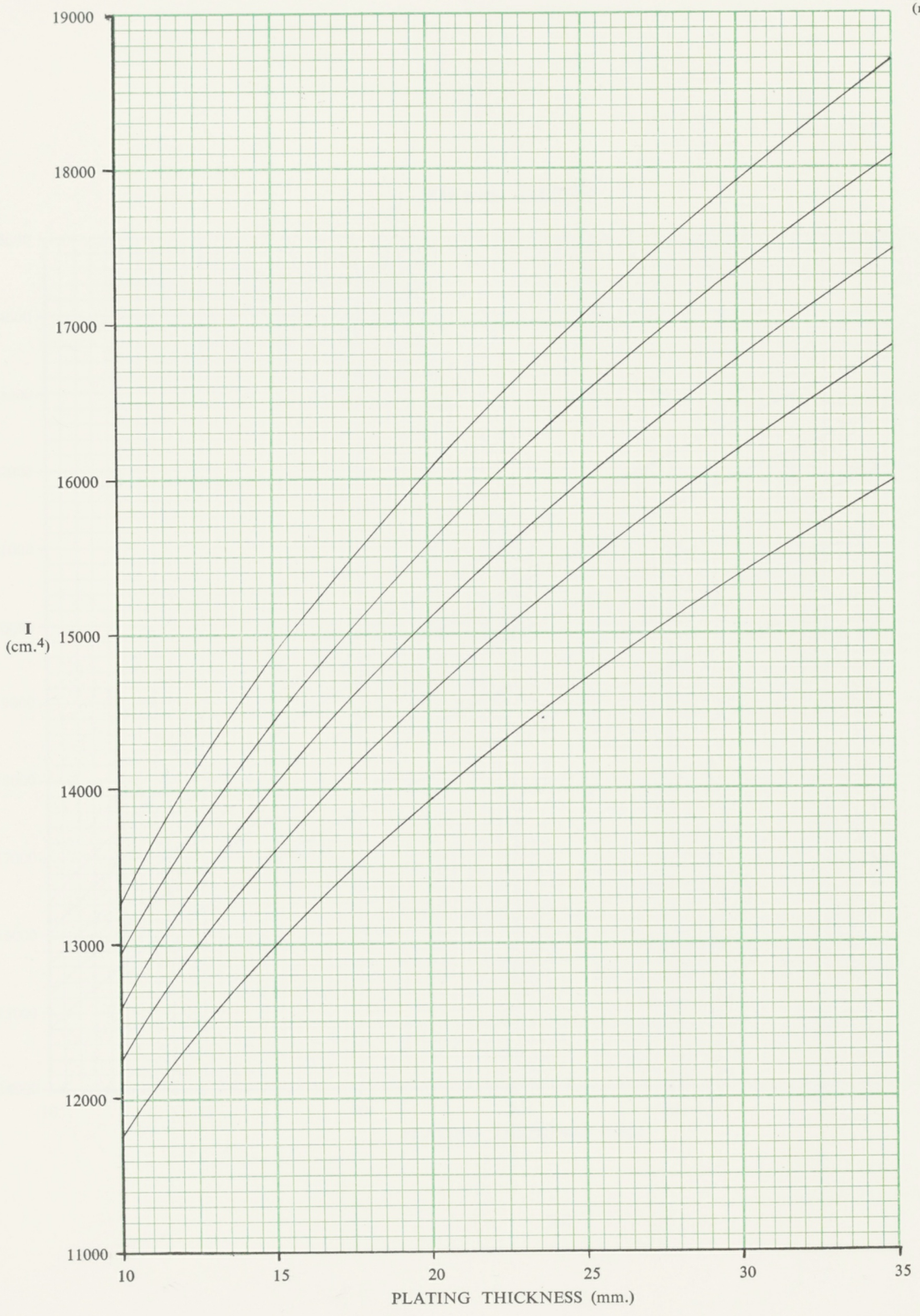
WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)
93	13	13,6
92	12	13,6
91	11	13,6
90	10	13,6
88,2	8,2	13,6

MOMENT OF INERTIA OF CHANNELS

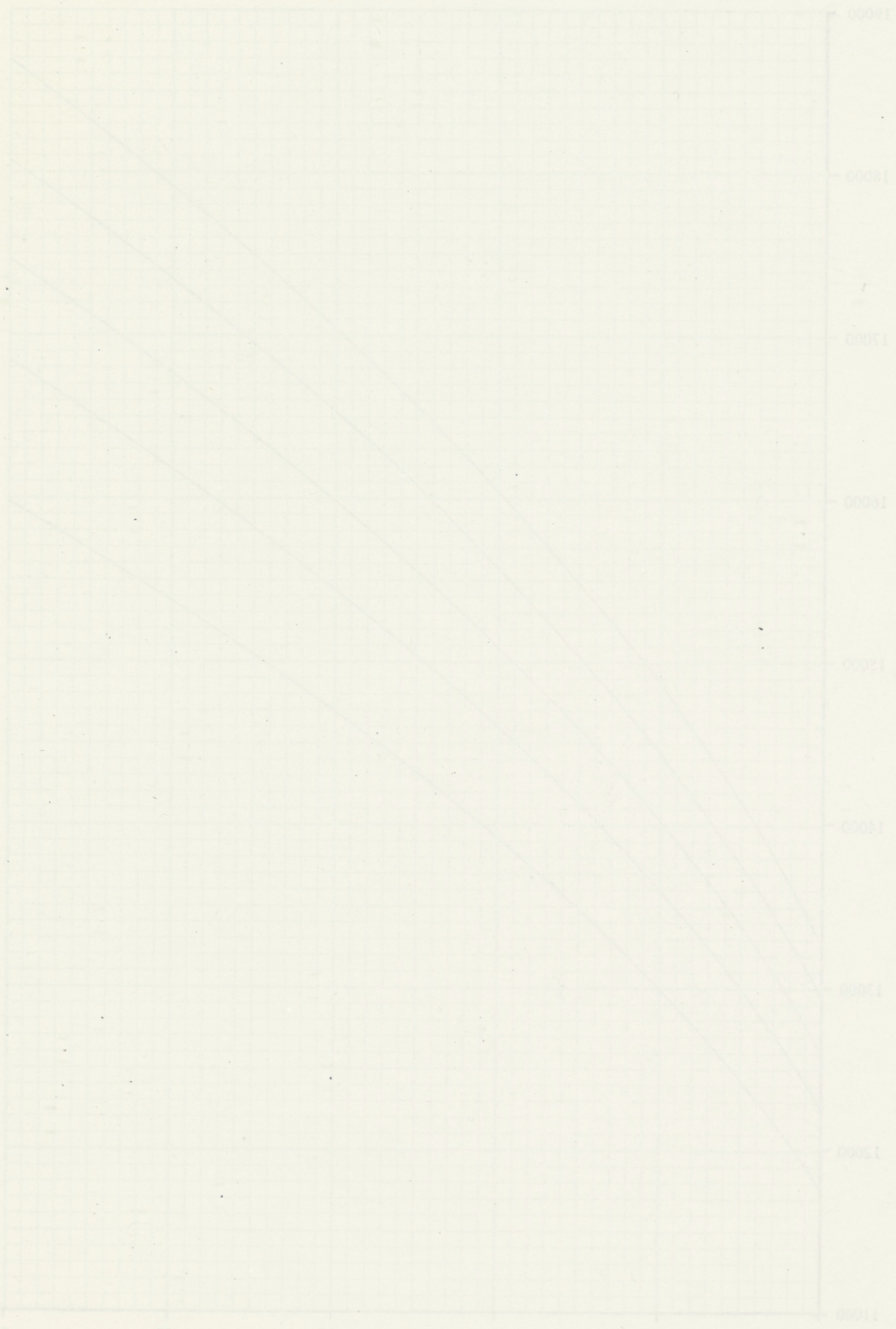
(WITH PLATING)



280 mm. DEPTH

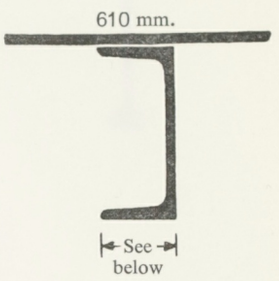


WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)
98	13	14,6
97	12	14,6
96	11	14,6
95	10	14,6
93,6	8,6	14,6

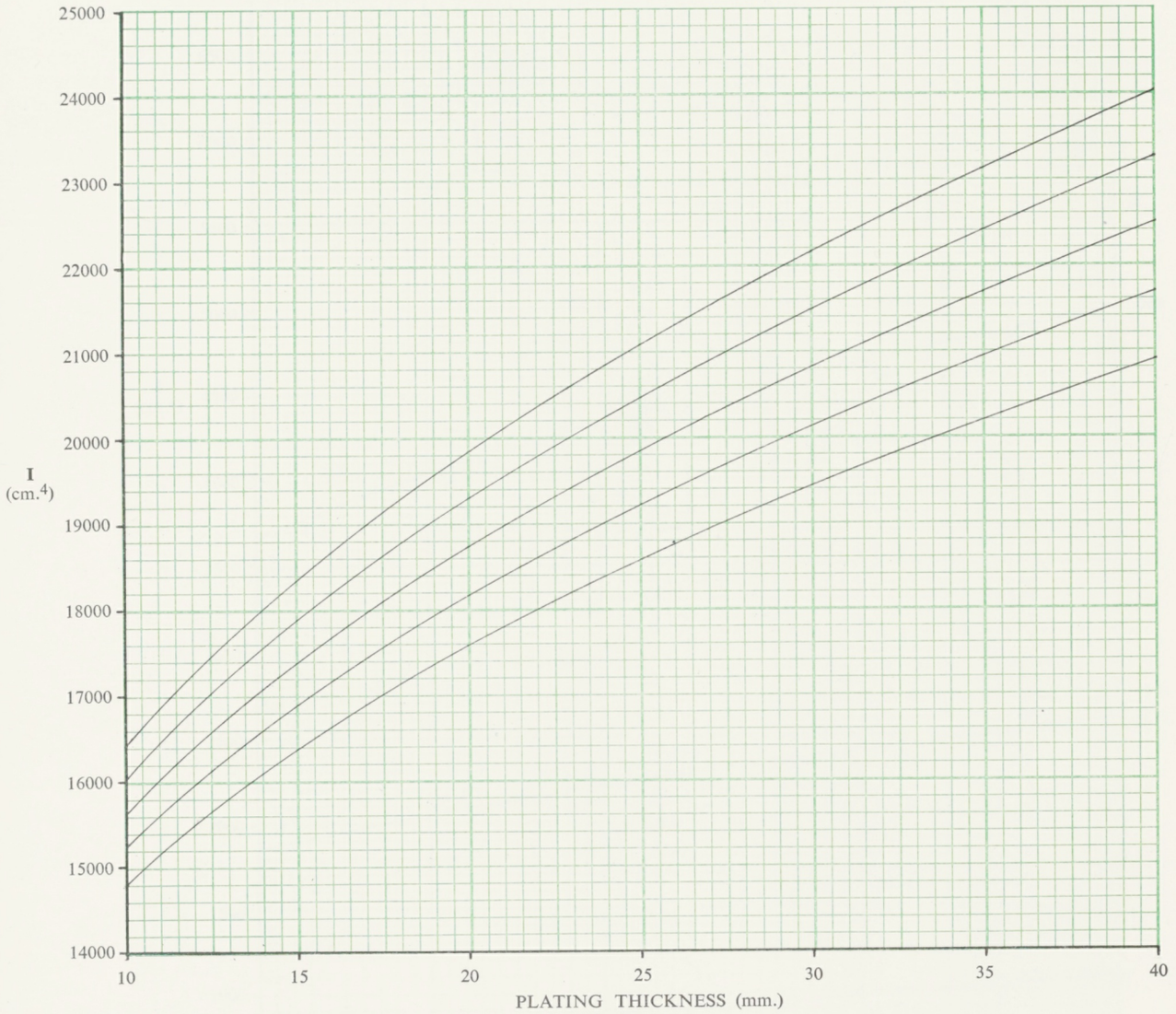


MOMENT OF INERTIA OF CHANNELS

(WITH PLATING)



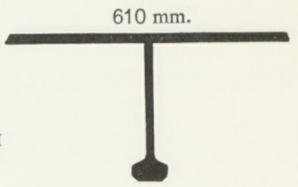
300 mm. DEPTH



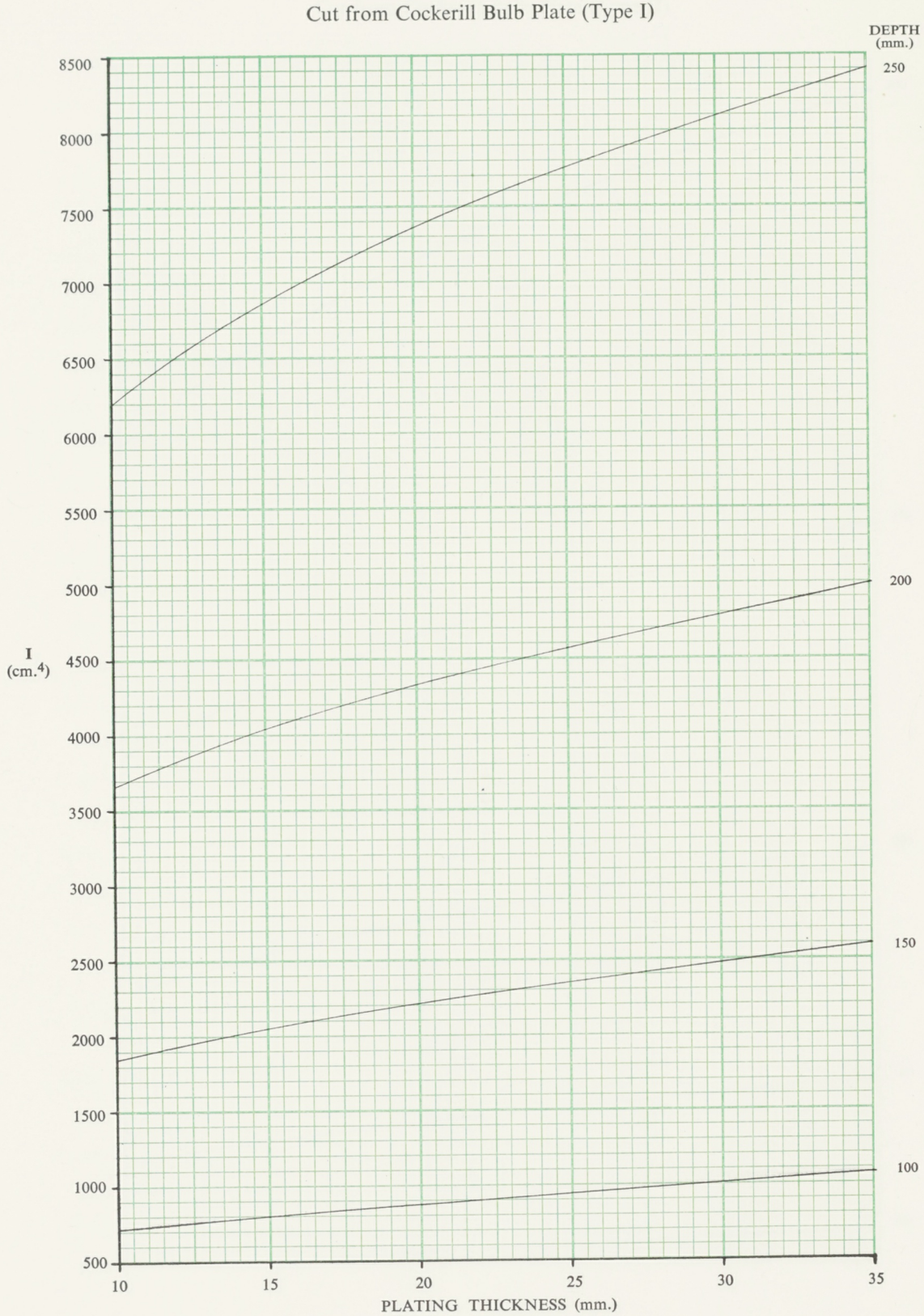
WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)
103	13	15,6
102	12	15,6
101	11	15,6
100	10	15,6
99	9	15,6

MOMENT OF INERTIA OF DOUBLE-SIDED BULB PLATES (COCKERILL)

(WITH PLATING)

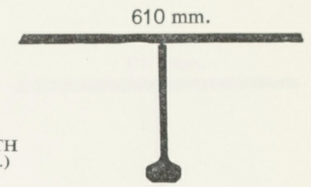


Cut from Cockerill Bulb Plate (Type I)

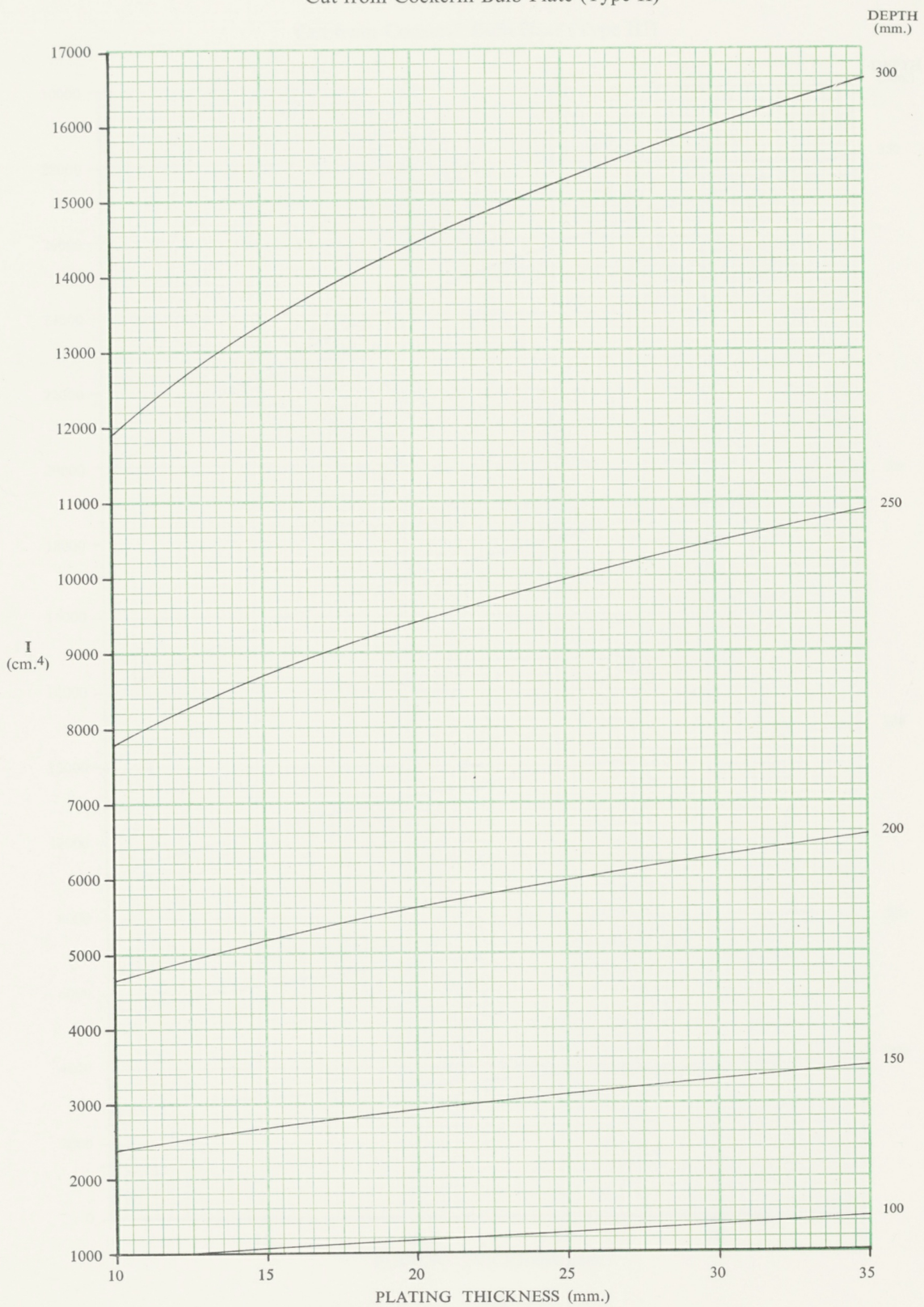


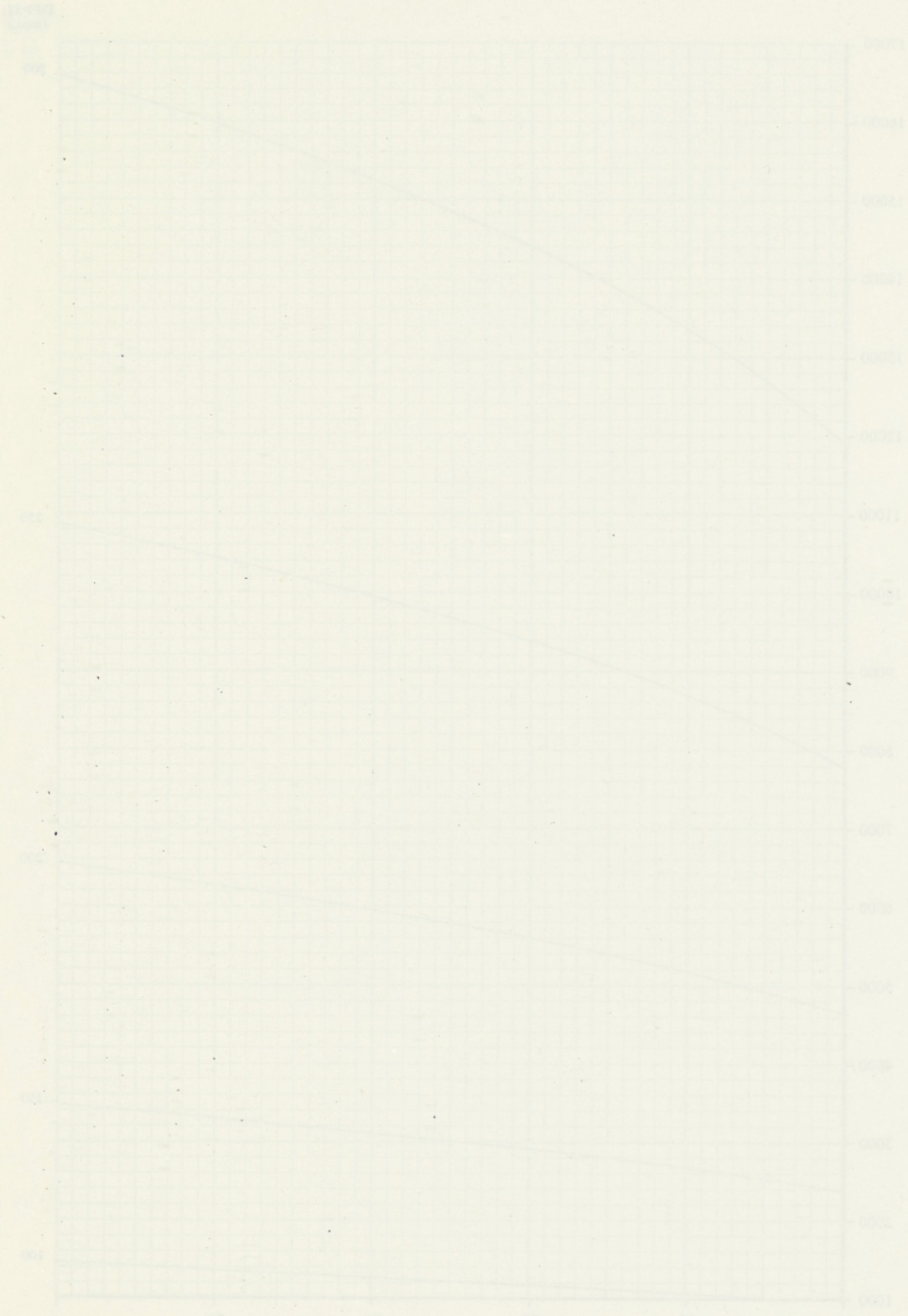
MOMENT OF INERTIA OF DOUBLE-SIDED BULB PLATES (COCKERILL)

(WITH PLATING)



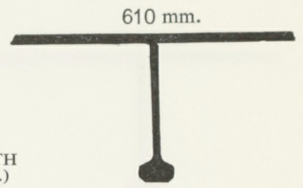
Cut from Cockerill Bulb Plate (Type II)



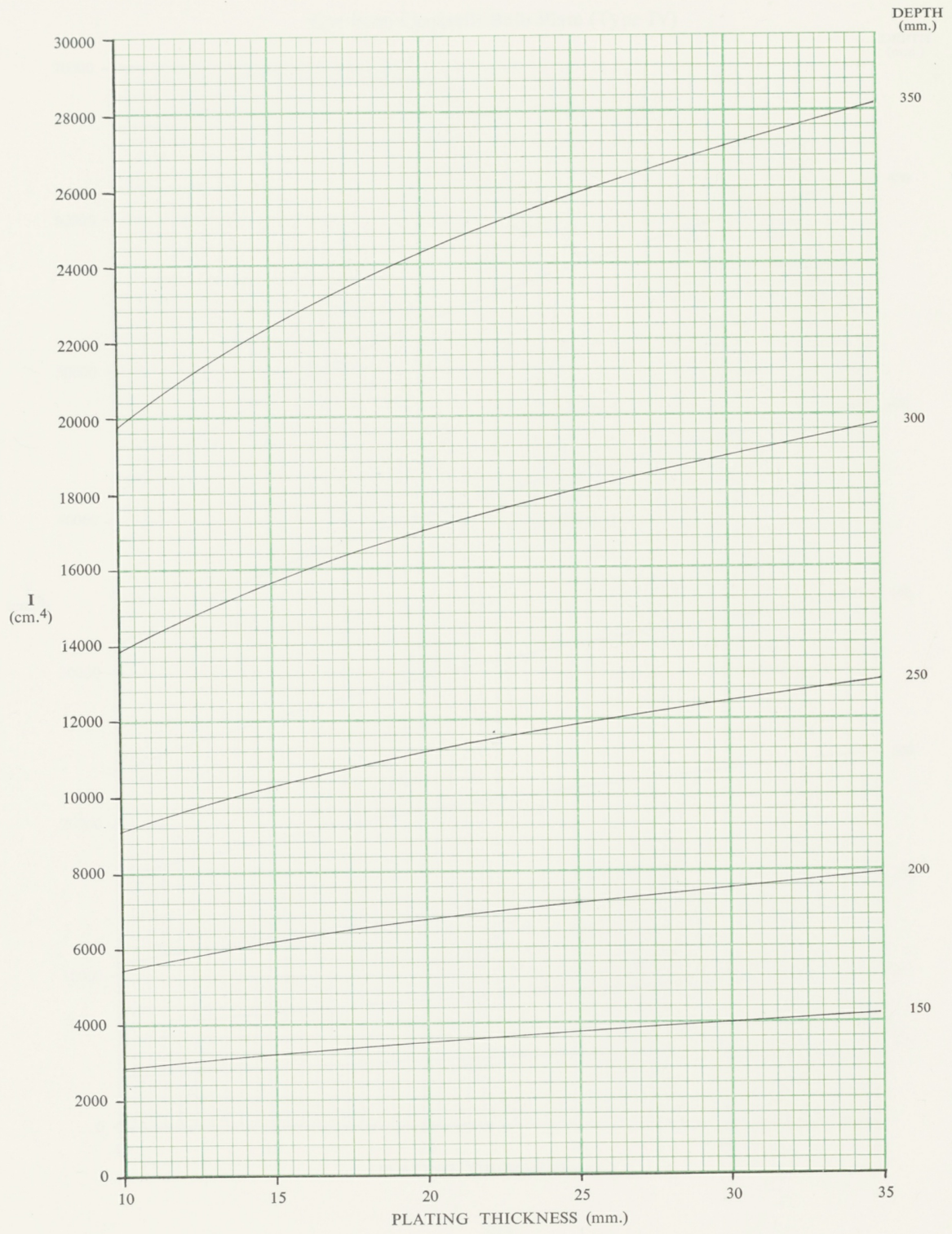


MOMENT OF INERTIA OF DOUBLE-SIDED BULB PLATES (COCKERILL)

(WITH PLATING)

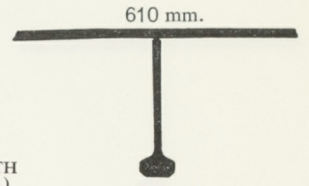


Cut from Cockerill Bulb Plate (Type III)

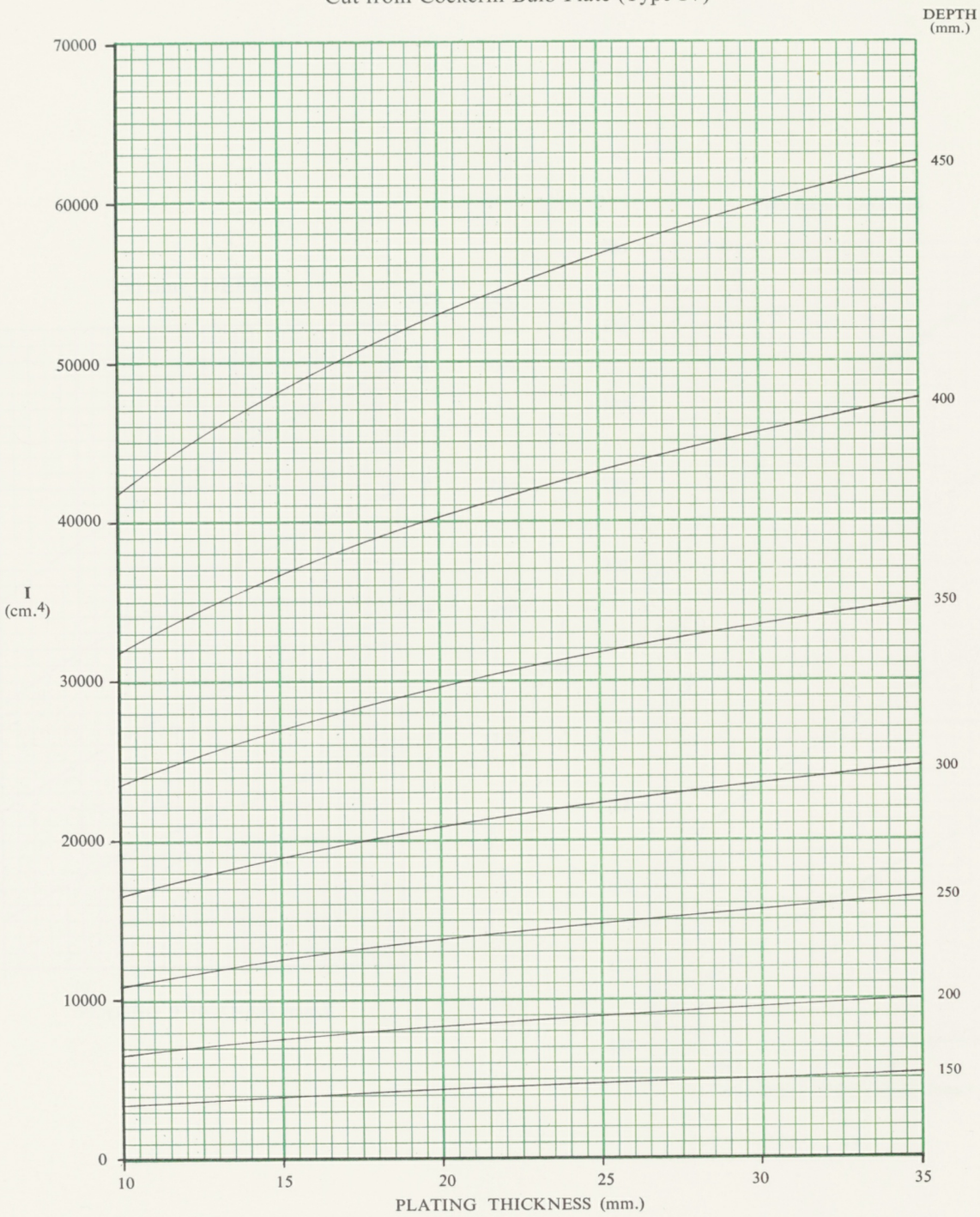


MOMENT OF INERTIA OF DOUBLE-SIDED BULB PLATES (COCKERILL)

(WITH PLATING)

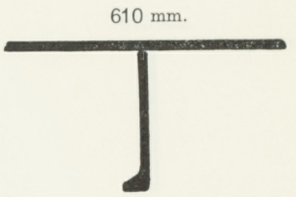


Cut from Cockerill Bulb Plate (Type IV)

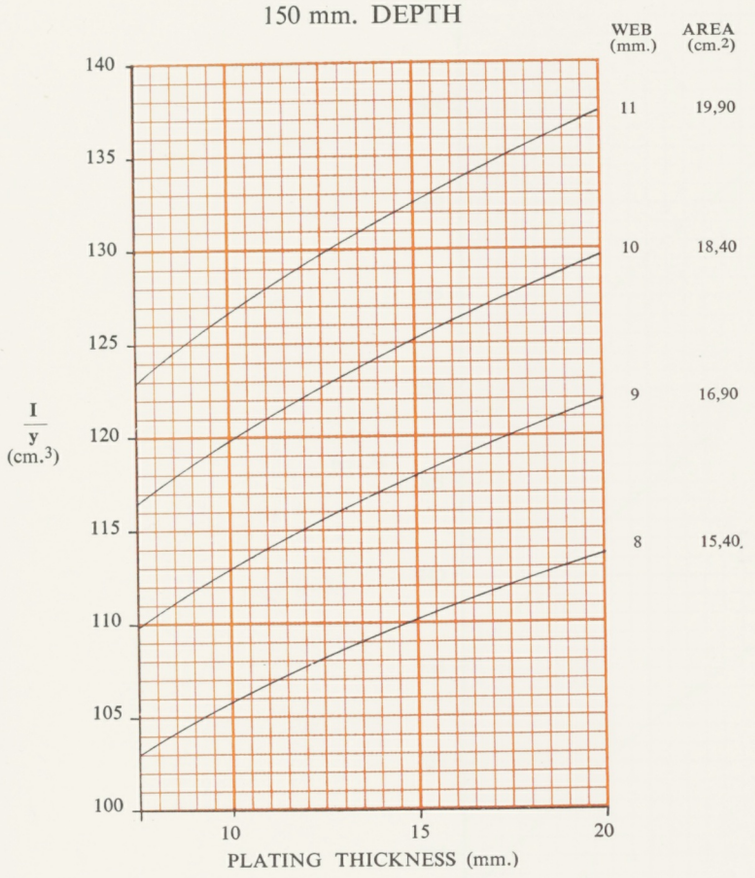


SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

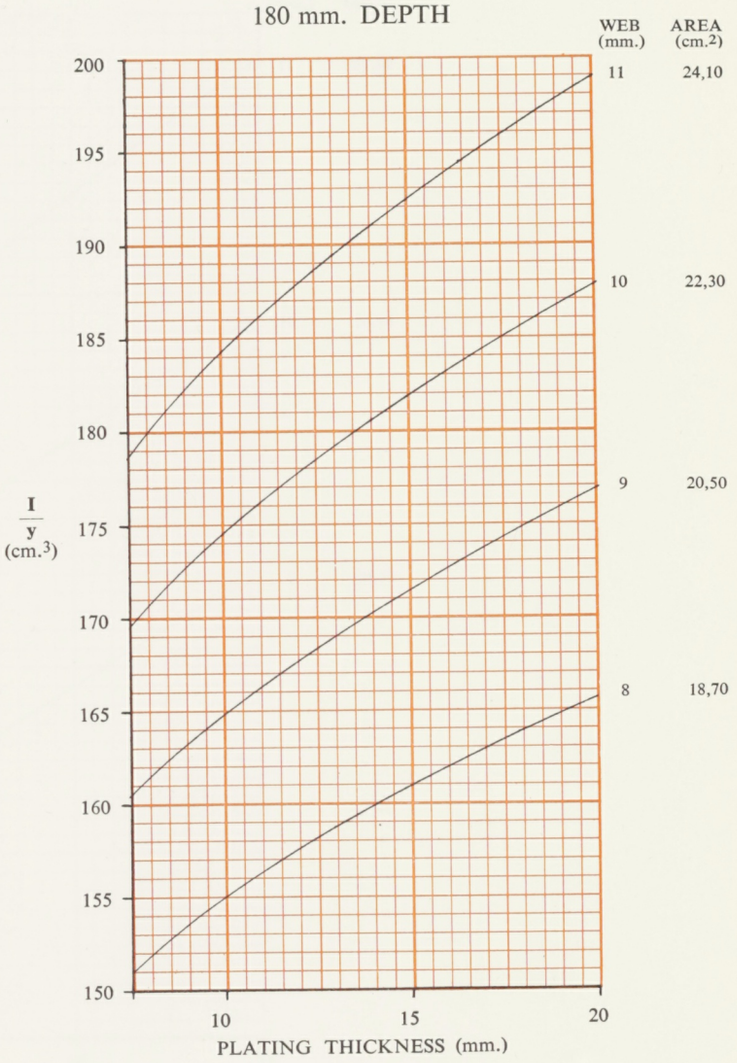
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

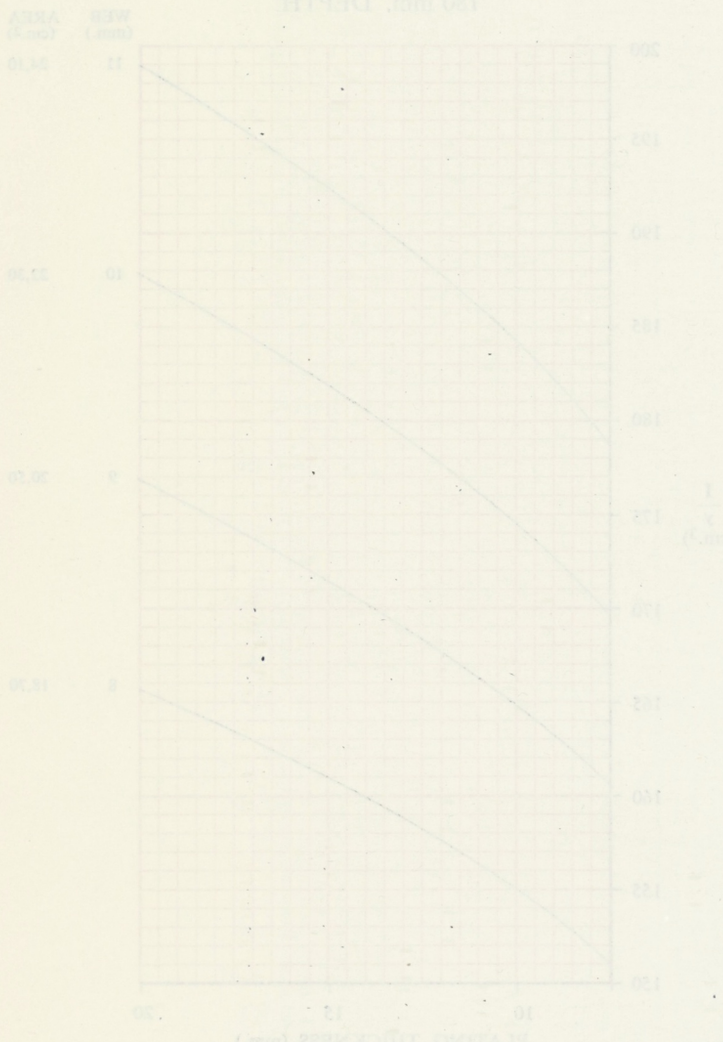


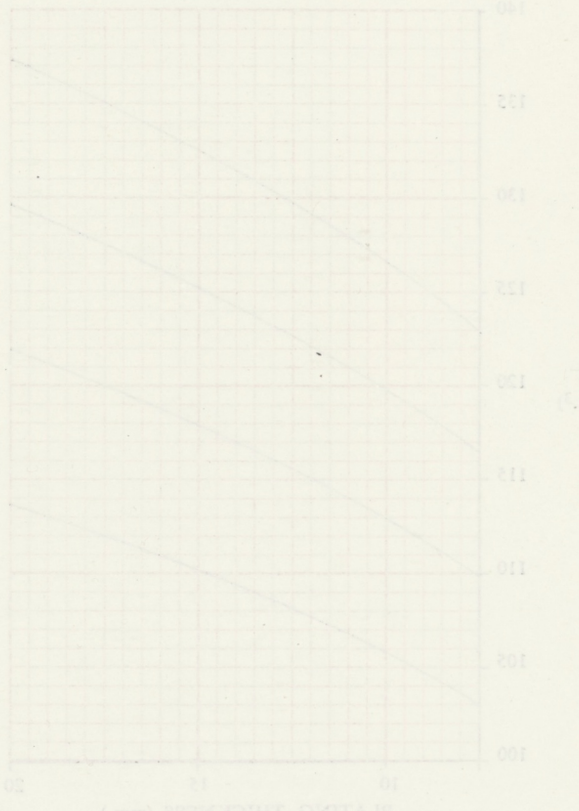
150 mm. DEPTH



180 mm. DEPTH

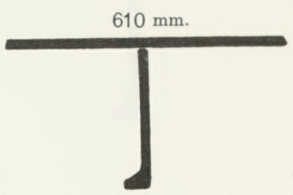


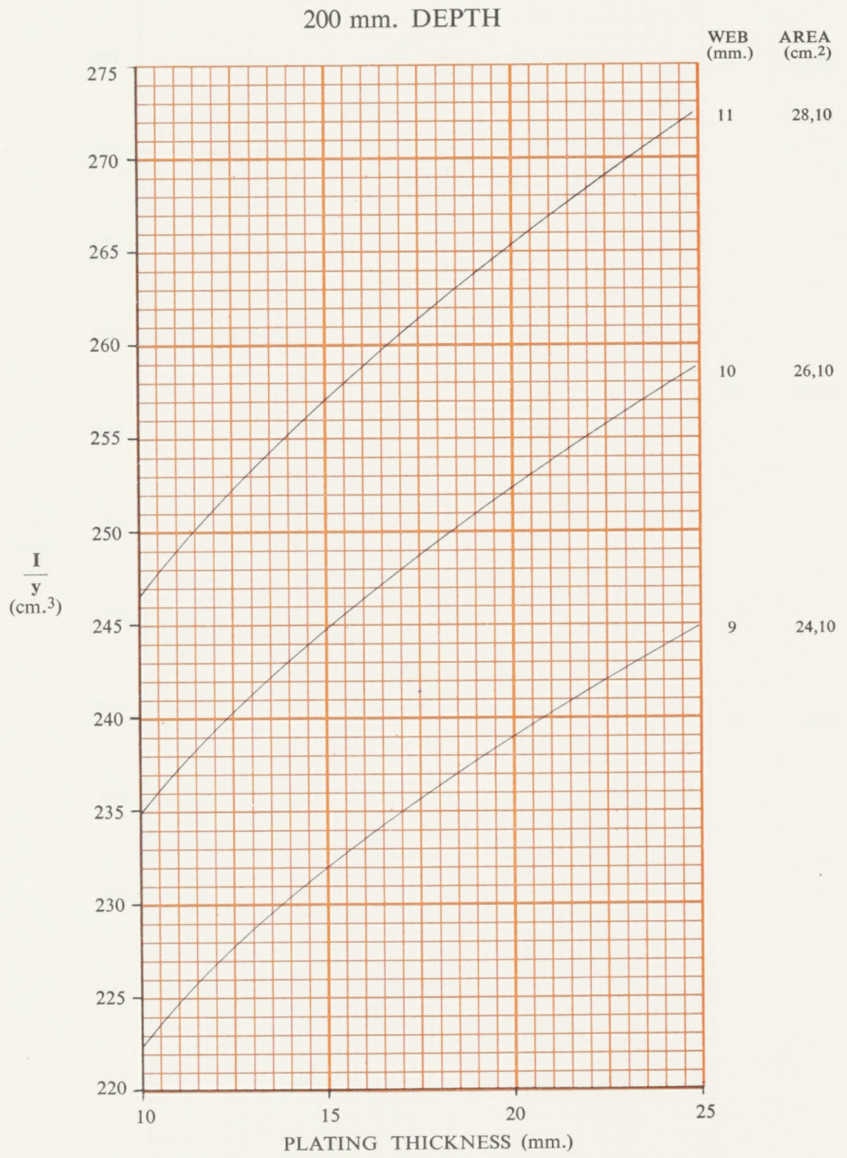




SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

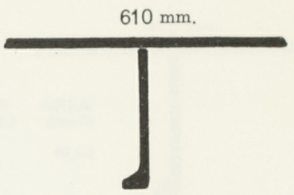
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

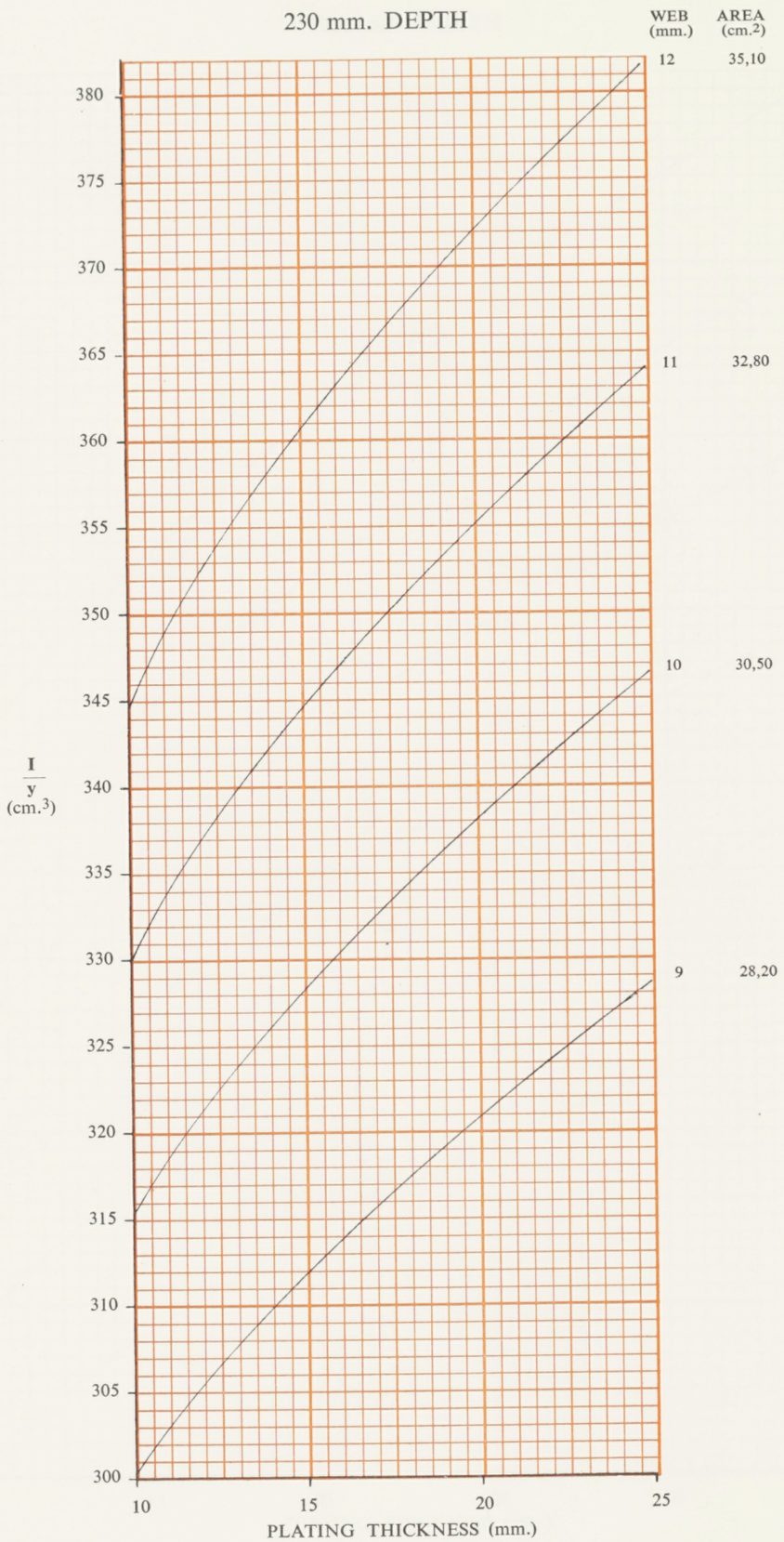


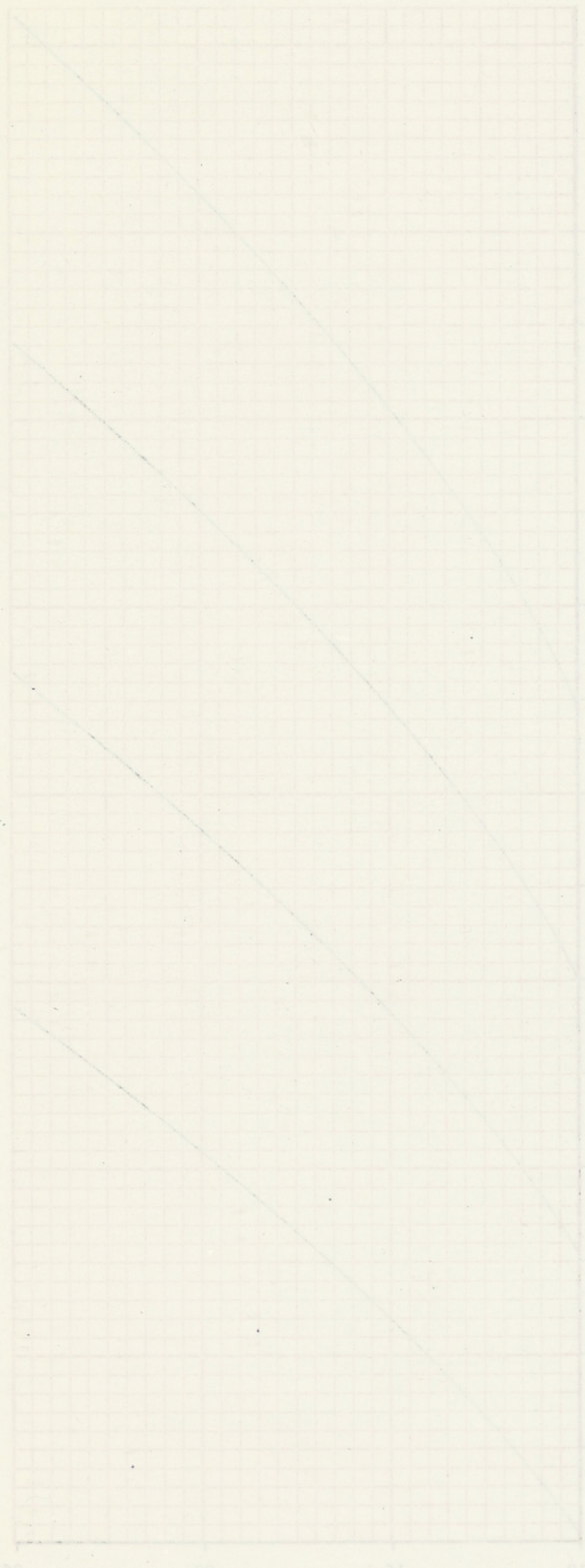


SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

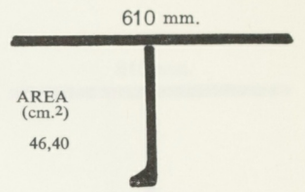




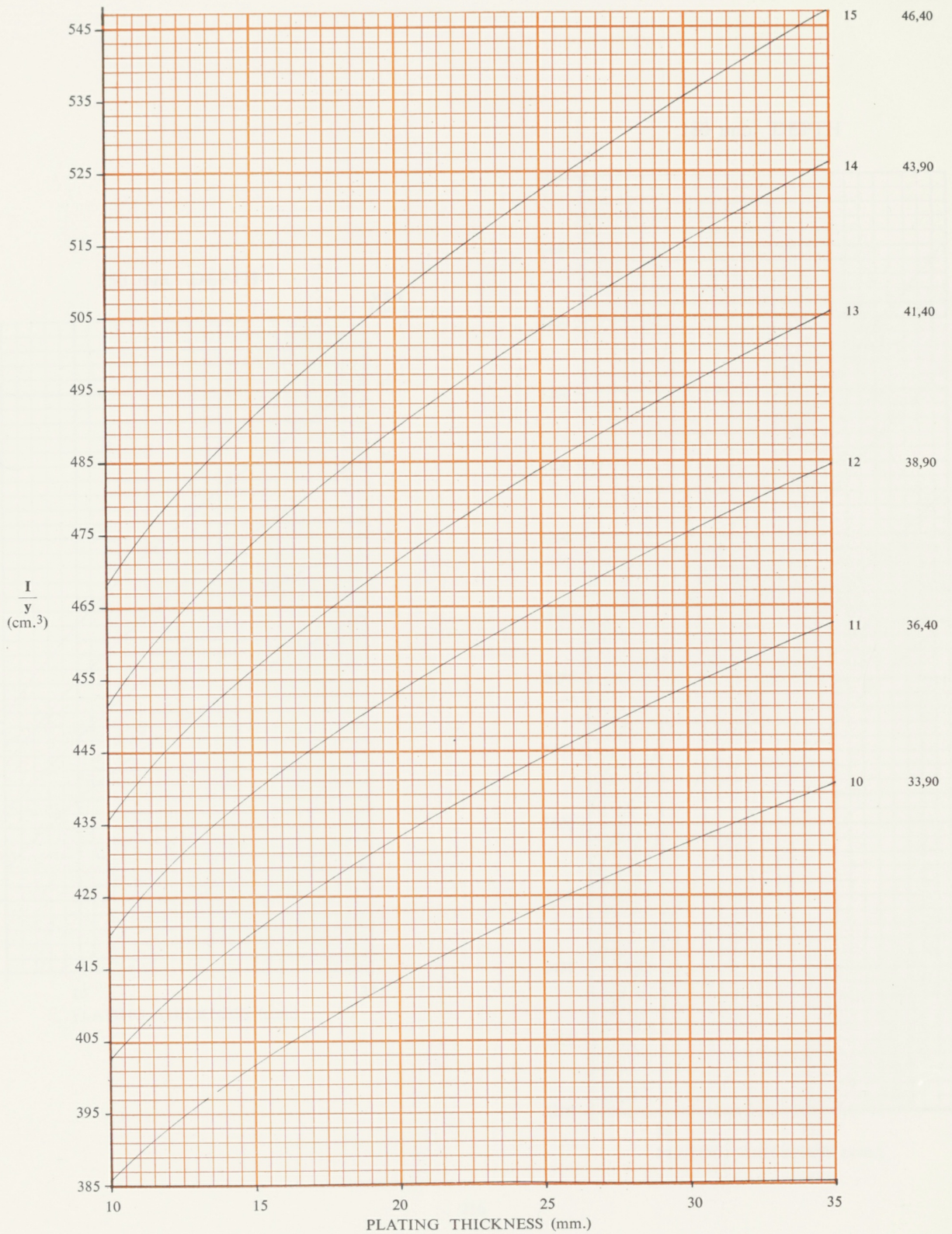


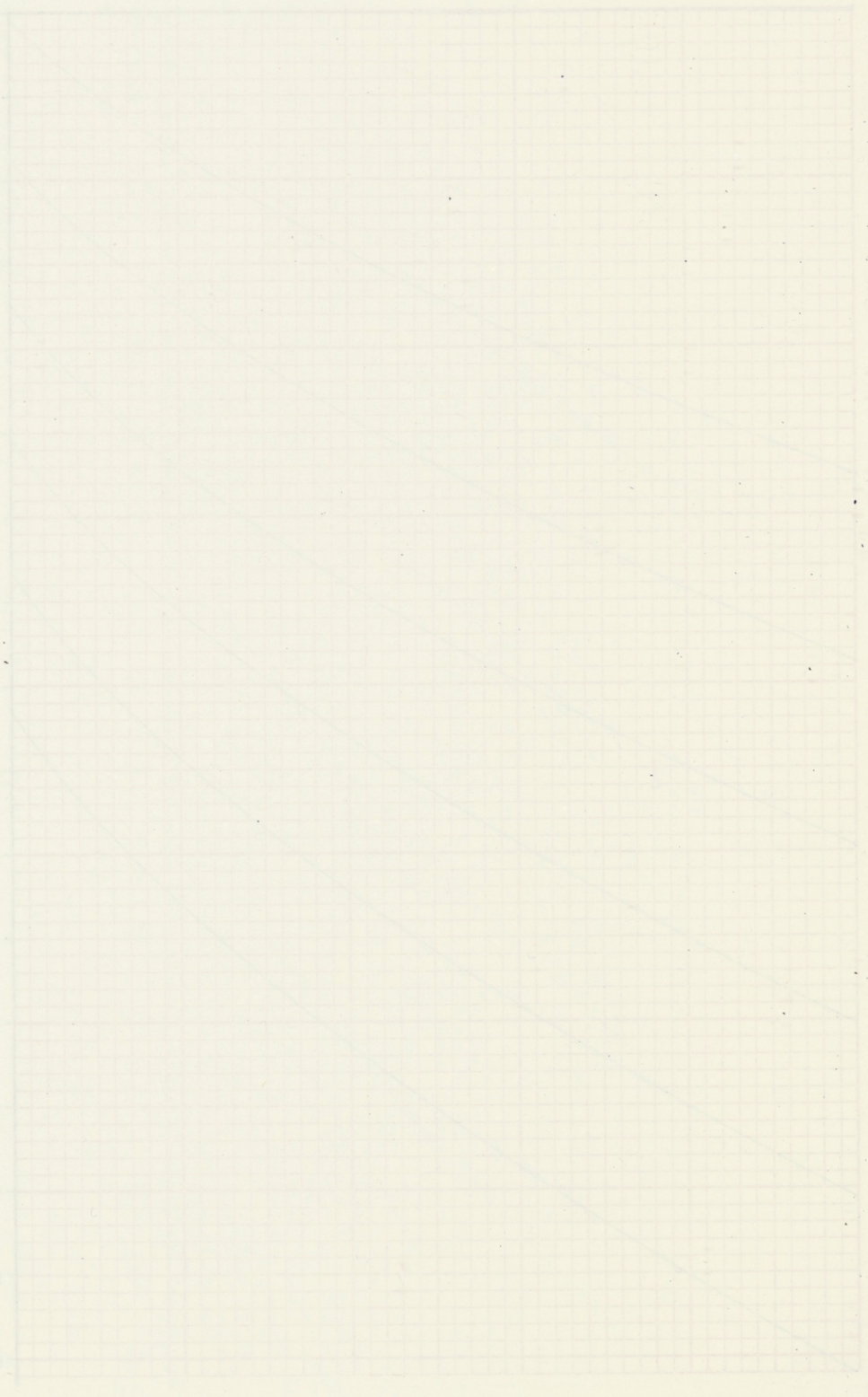
SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



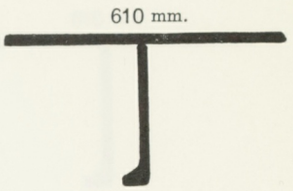
250 mm. DEPTH



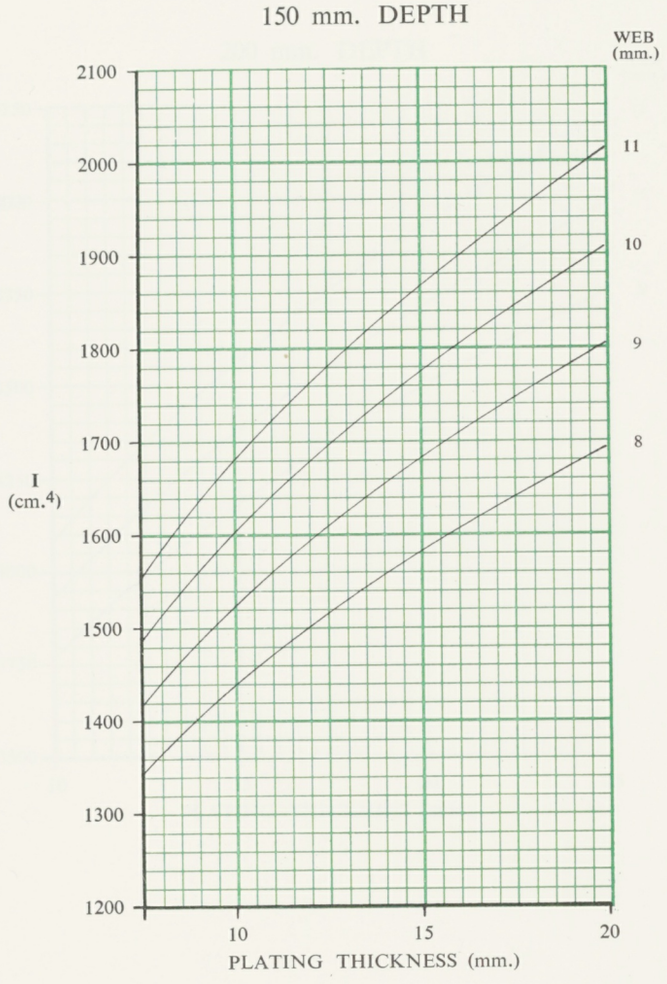


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

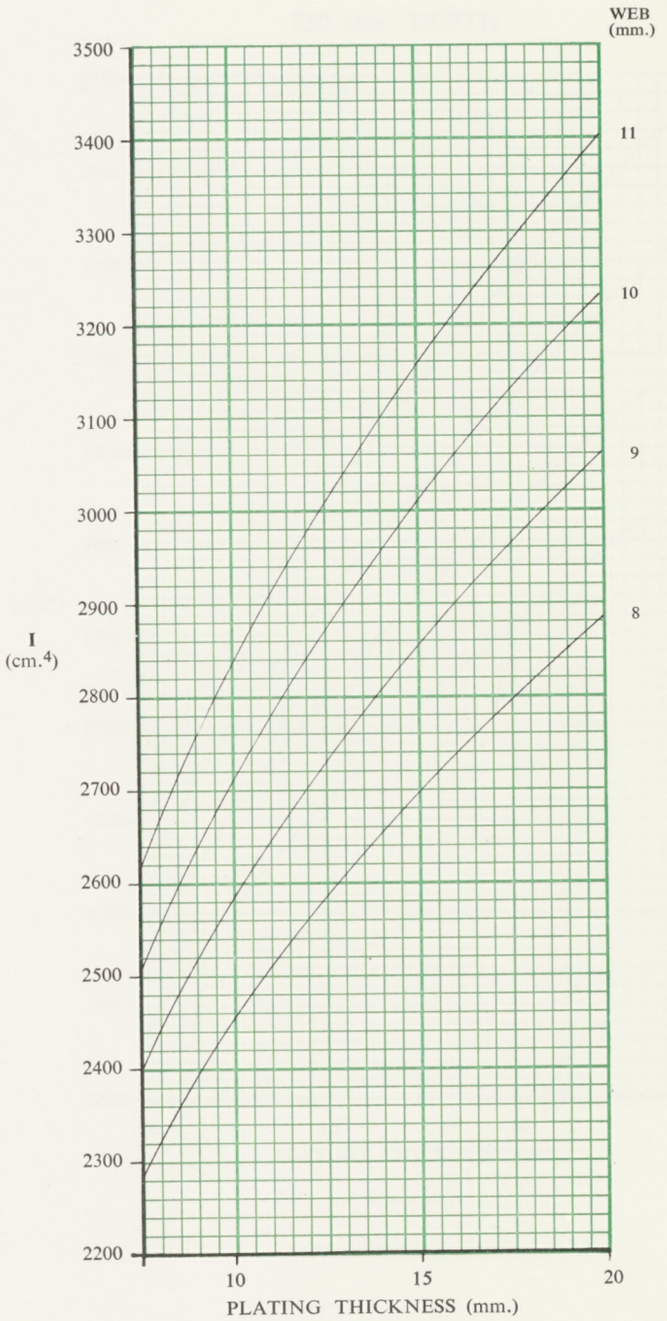
(WITH PLATING)

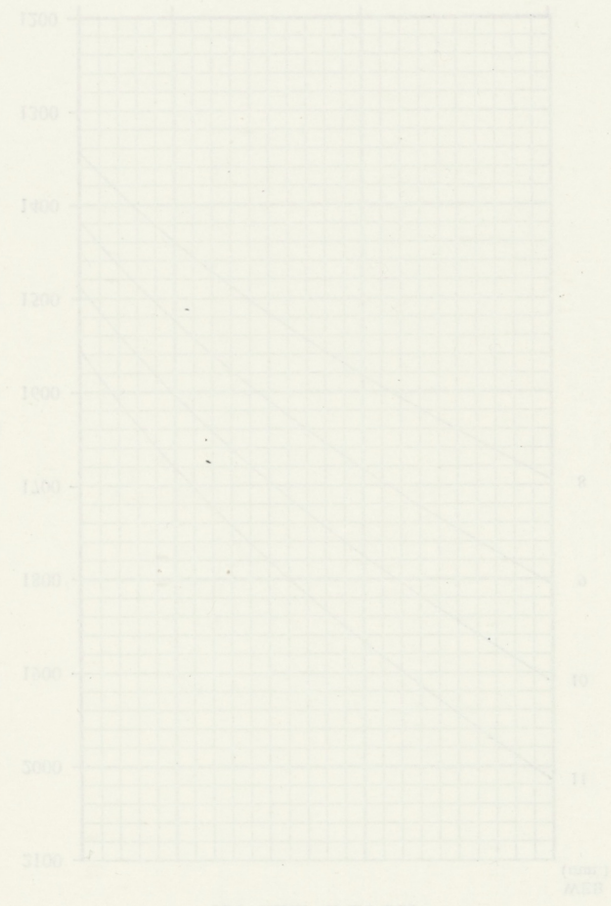


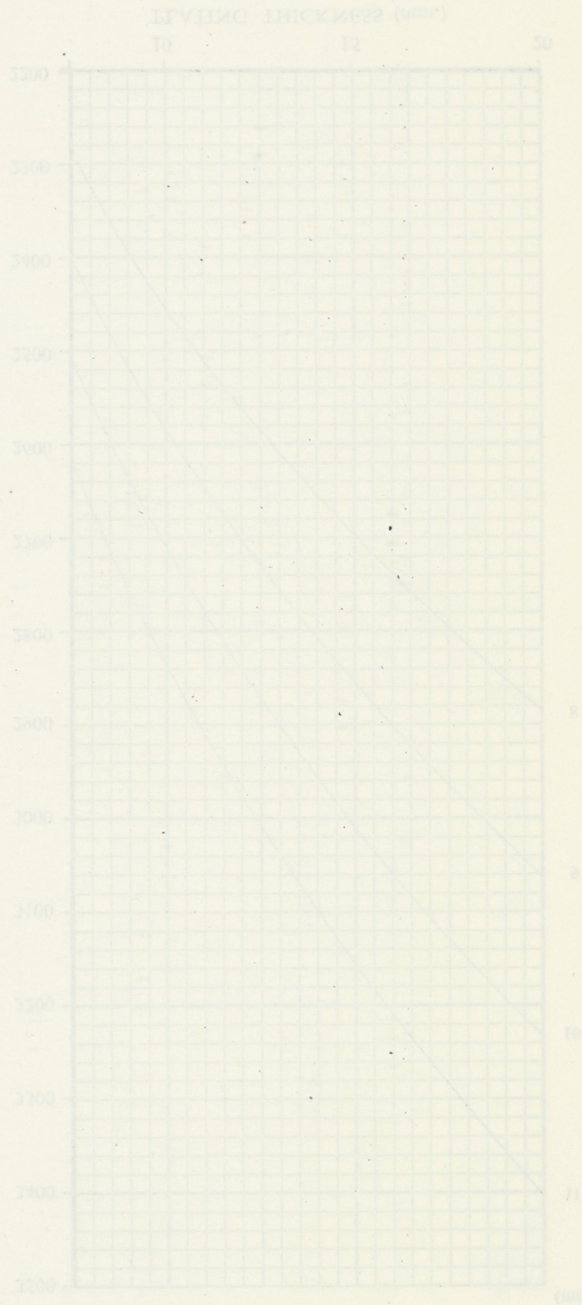
150 mm. DEPTH



180 mm. DEPTH

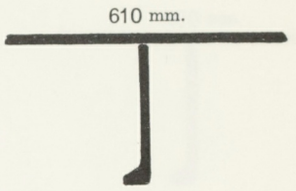




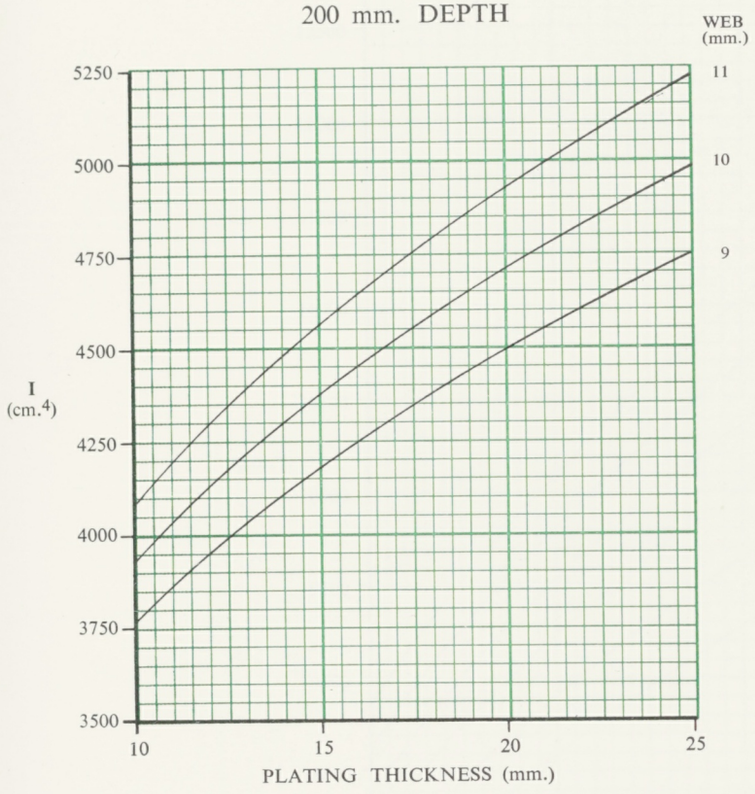


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

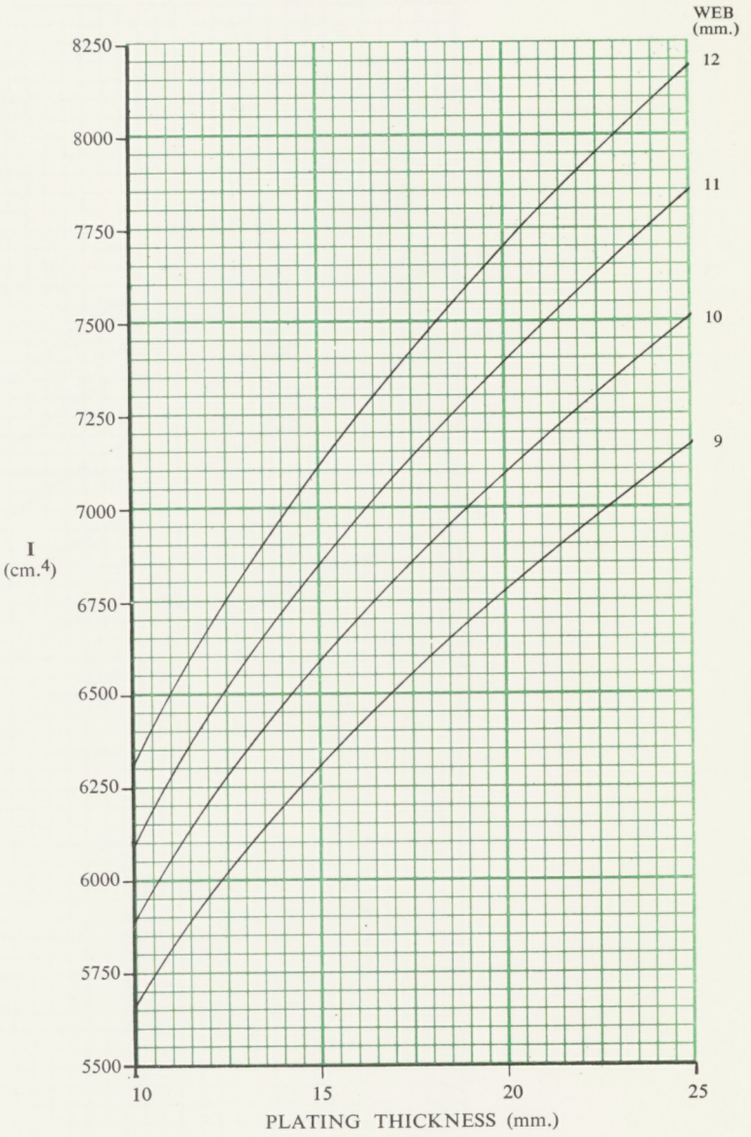
(WITH PLATING)



200 mm. DEPTH

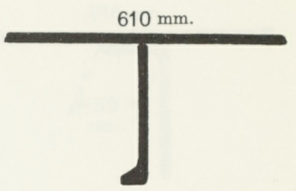


230 mm. DEPTH

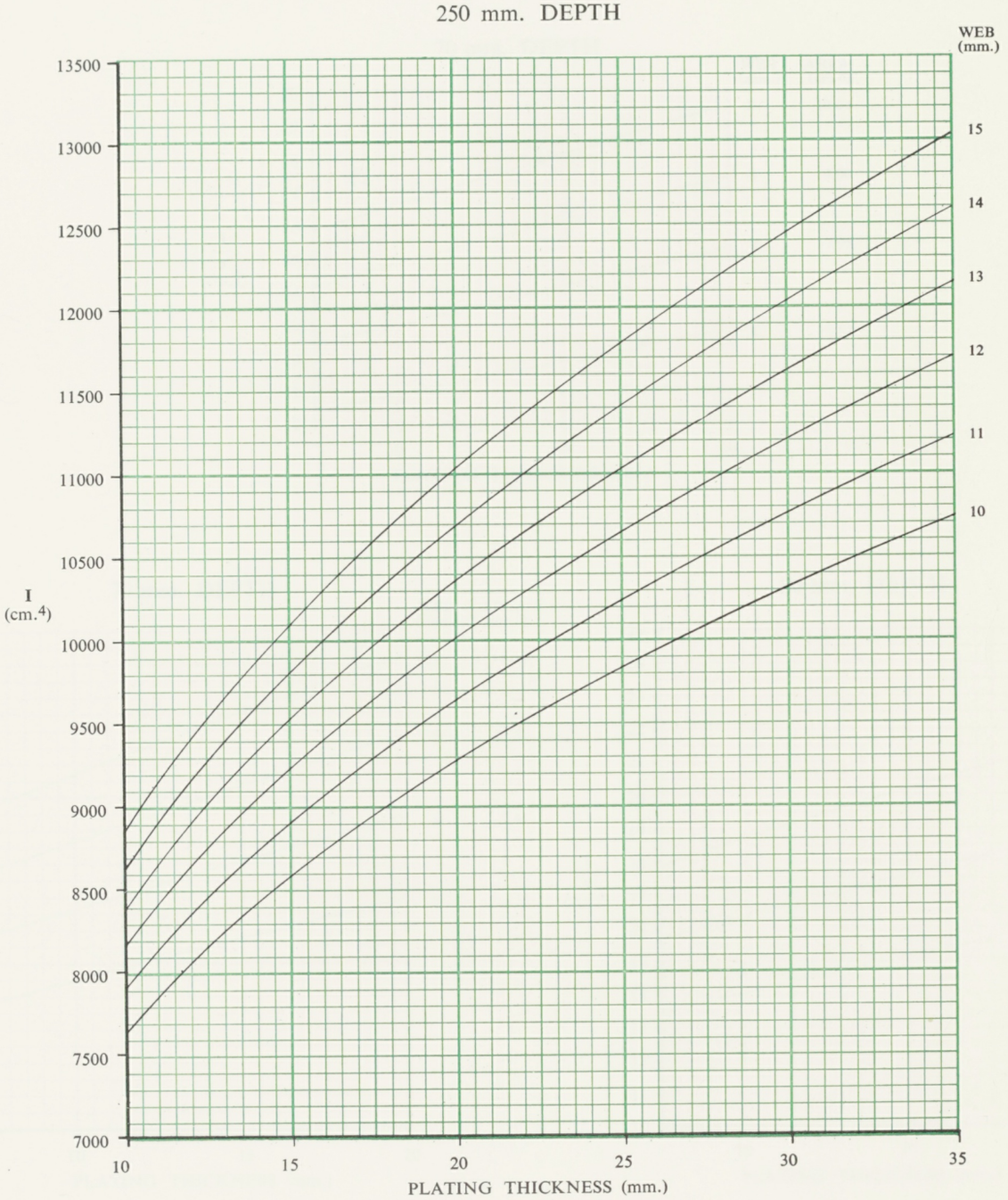


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)

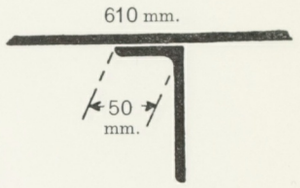


250 mm. DEPTH



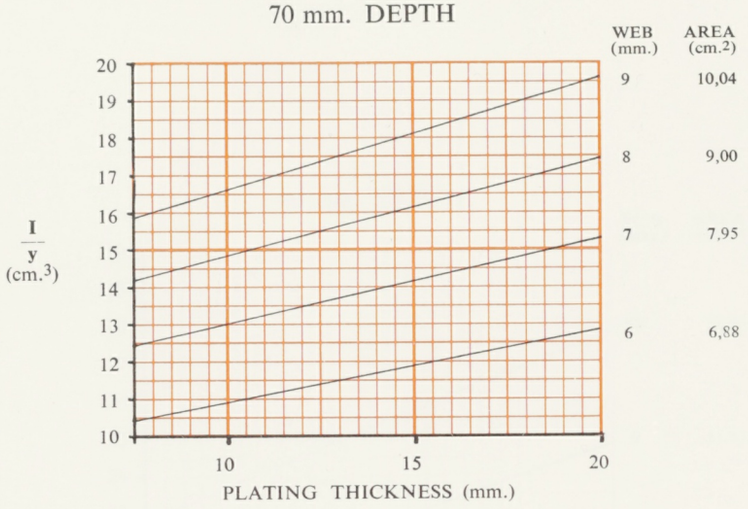
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



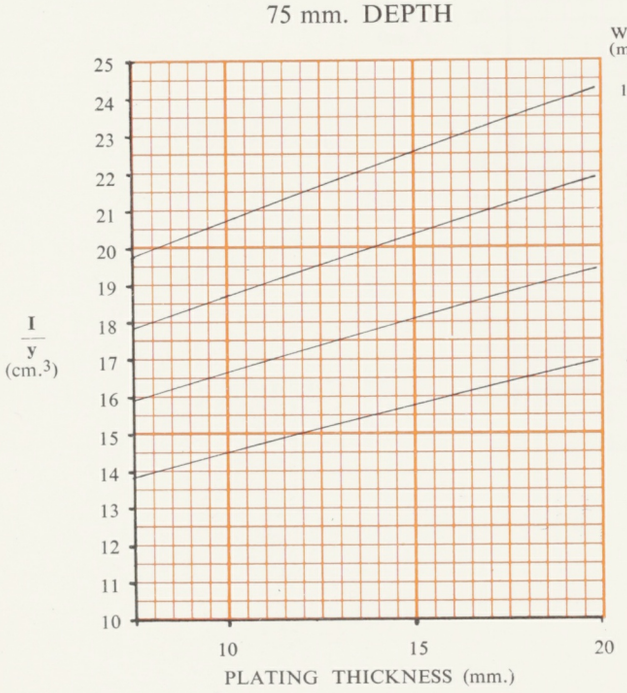
50 mm. FLANGE

70 mm. DEPTH



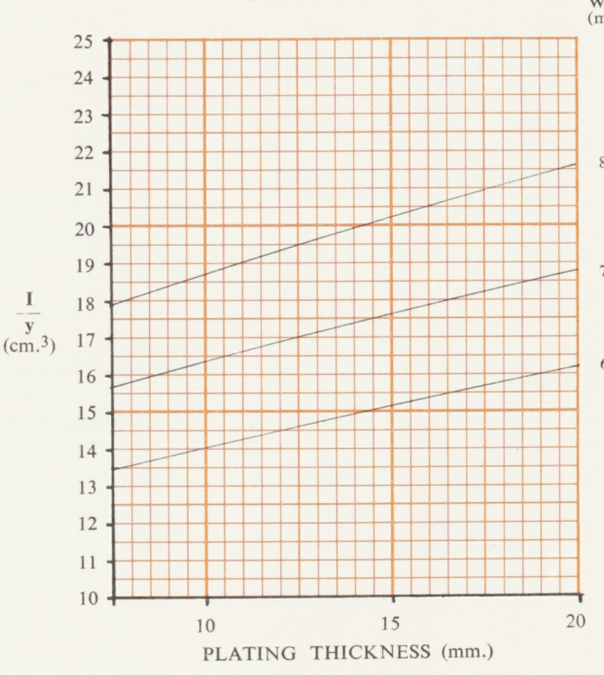
WEB (mm.)	AREA (cm.2)
9	10,04
8	9,00
7	7,95
6	6,88

75 mm. DEPTH

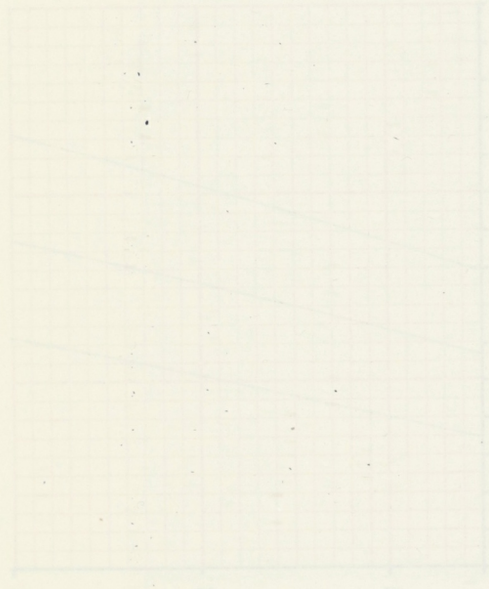


WEB (mm.)	AREA (cm.2)
10	11,54
9	10,50
8	9,41
7	8,33

80 mm. DEPTH

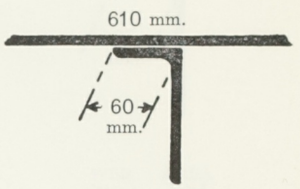


WEB (mm.)	AREA (cm.2)
8	9,80
7	8,65
6	7,48



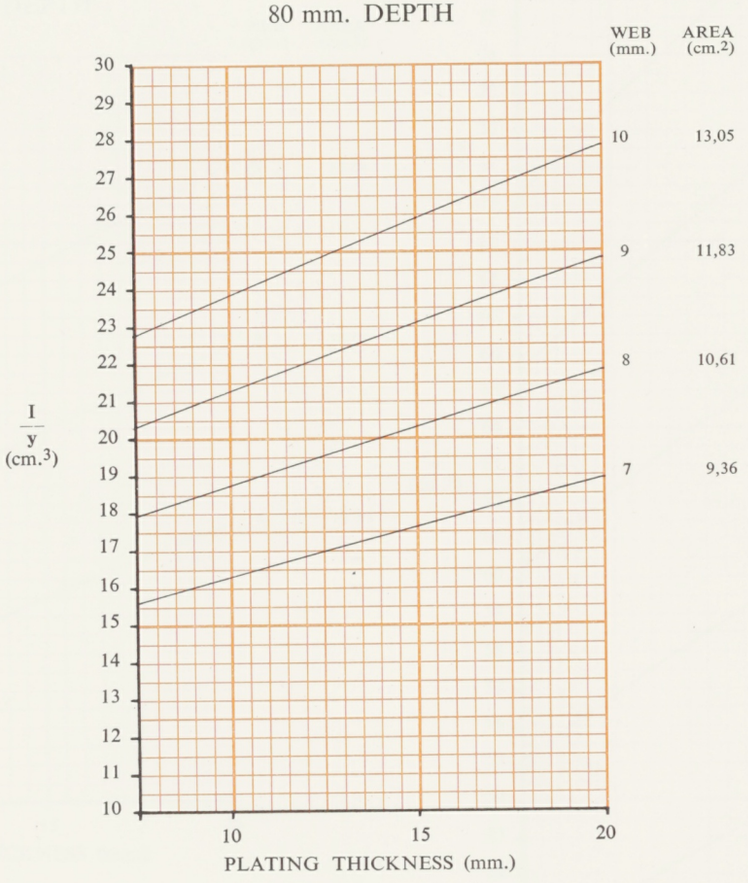
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



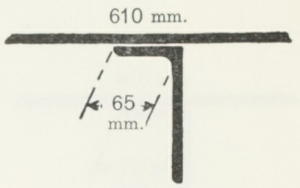
60 mm. FLANGE

80 mm. DEPTH



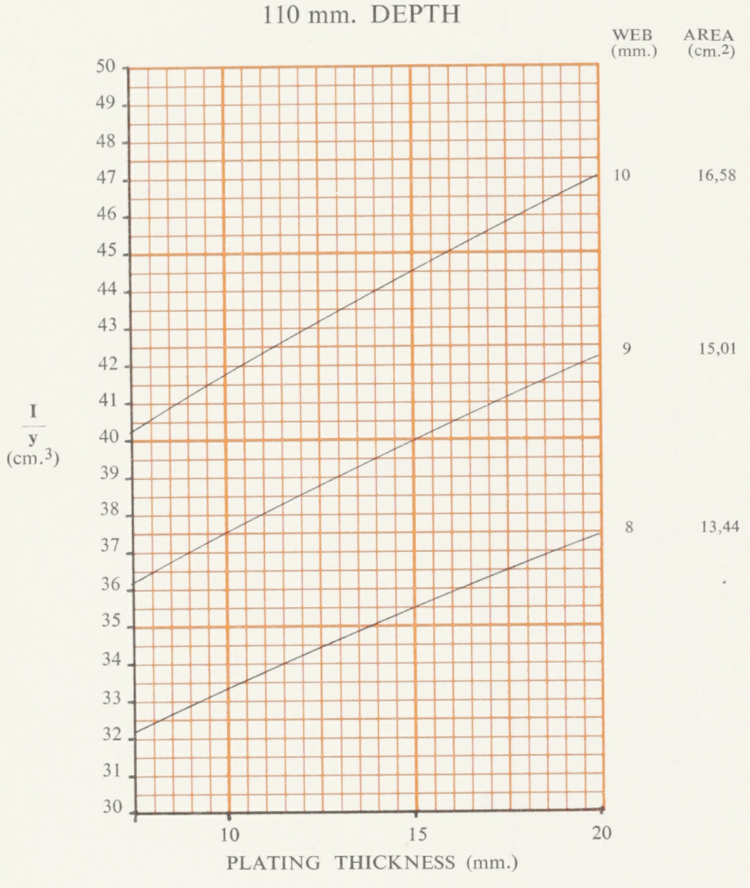
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

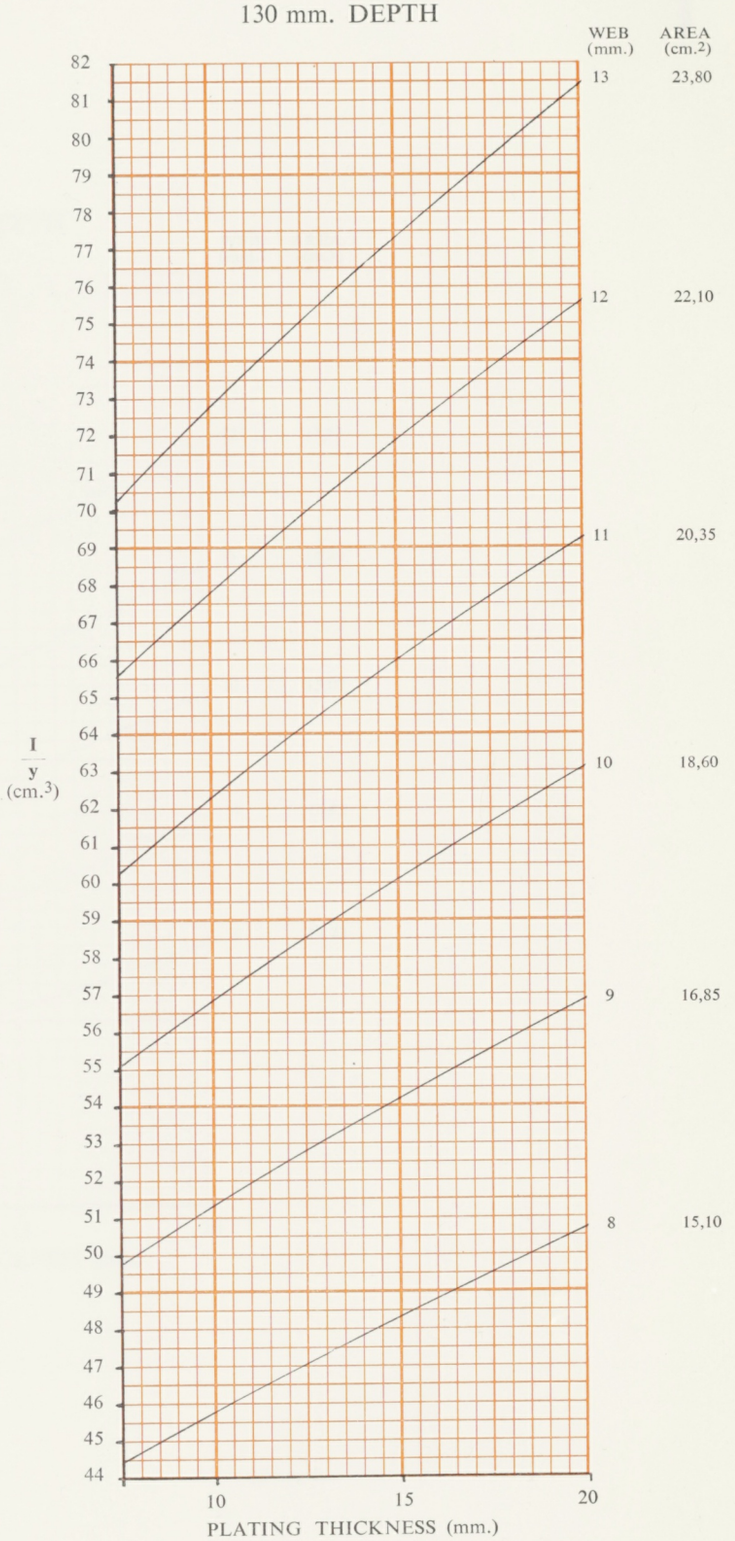


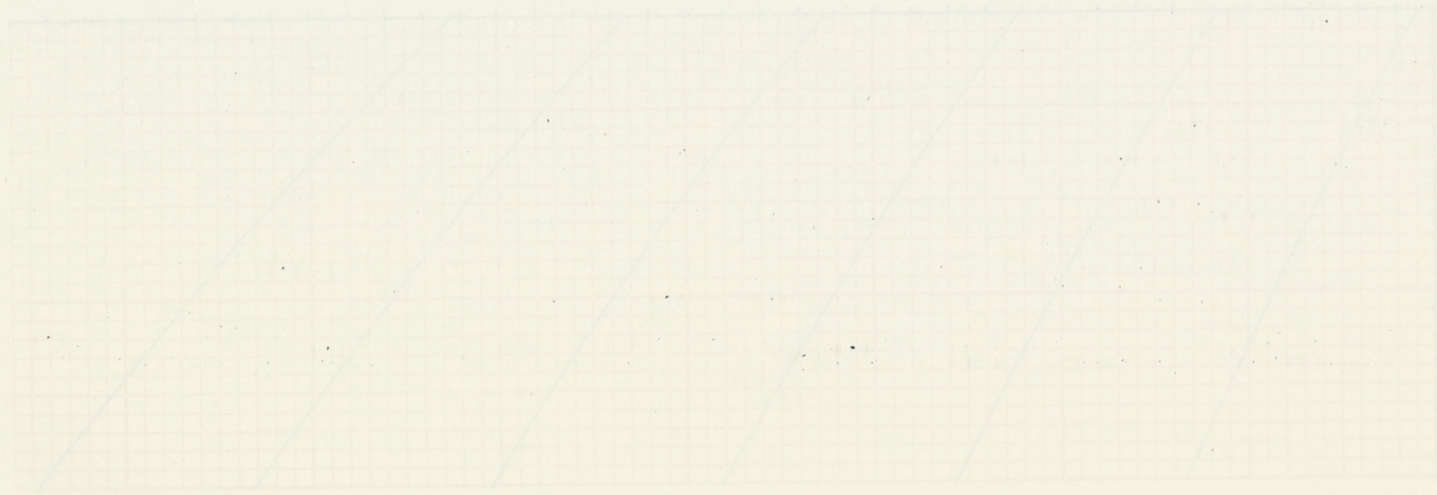
65 mm. FLANGE

110 mm. DEPTH



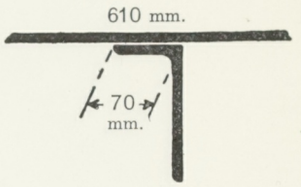
130 mm. DEPTH



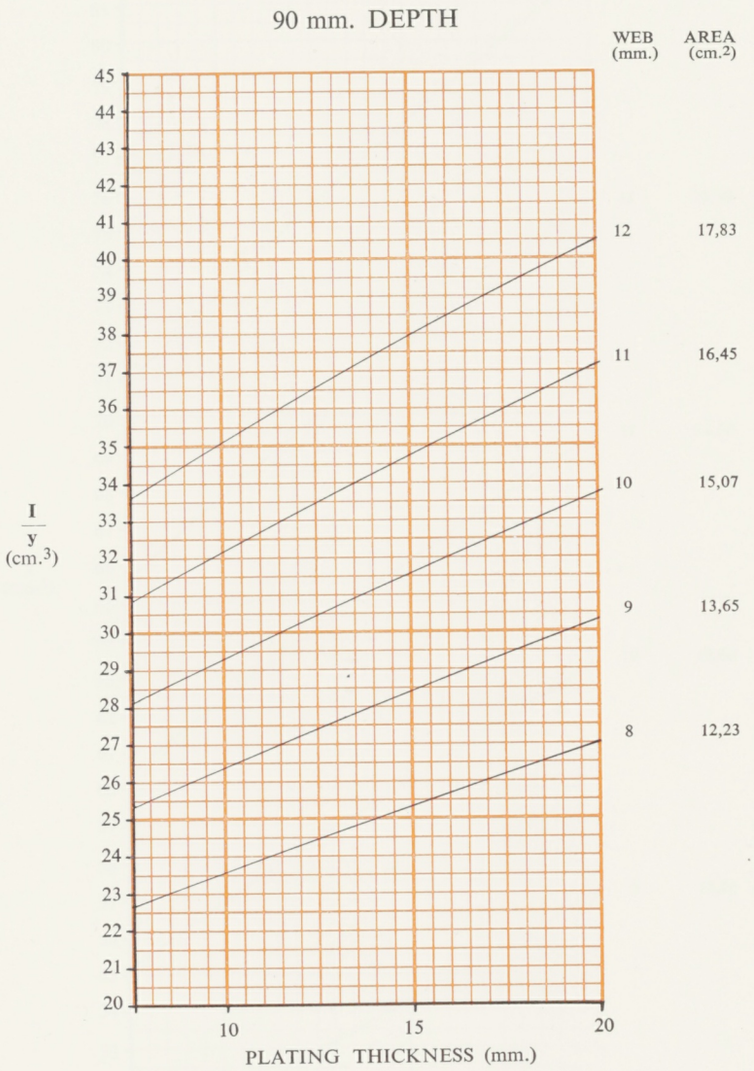


SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

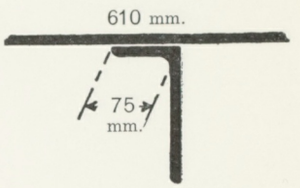


70 mm. FLANGE



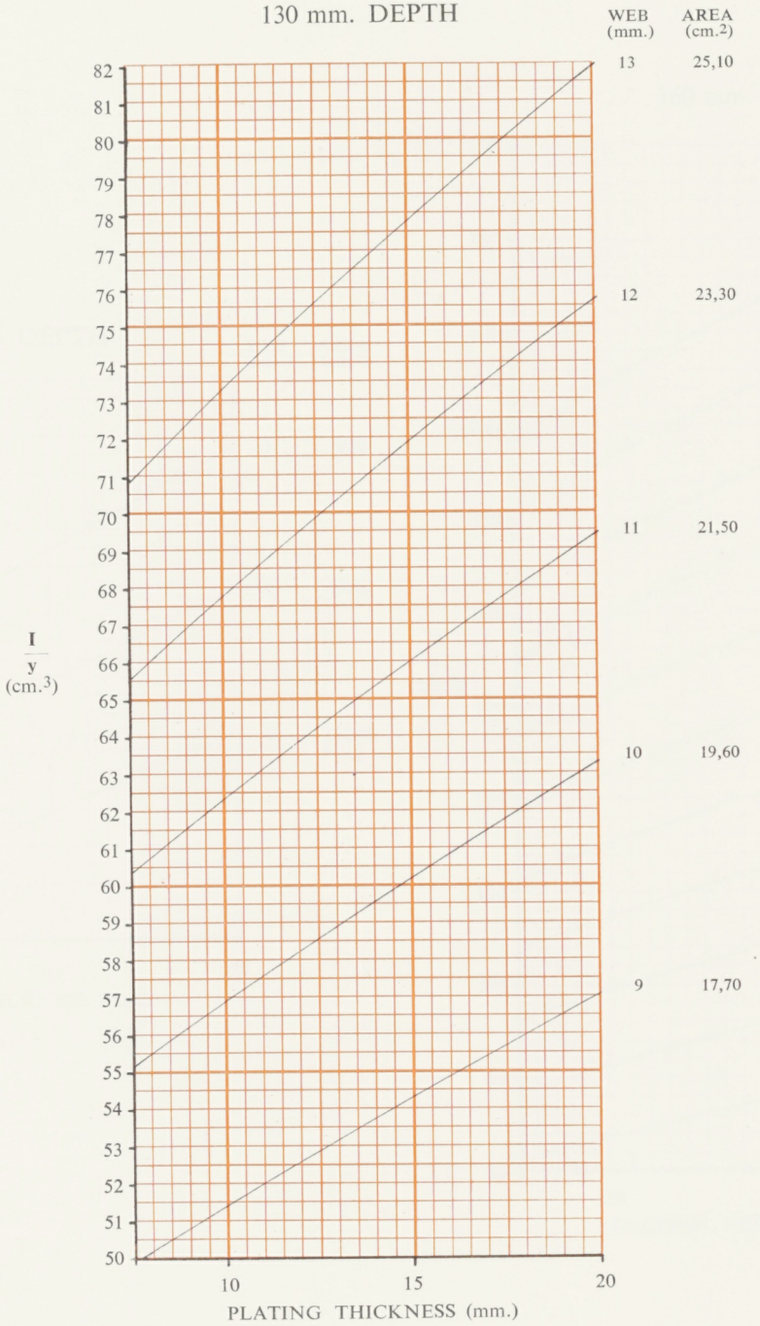
SECTION MODULUS AND AREA OF ORDINARY ANGLES

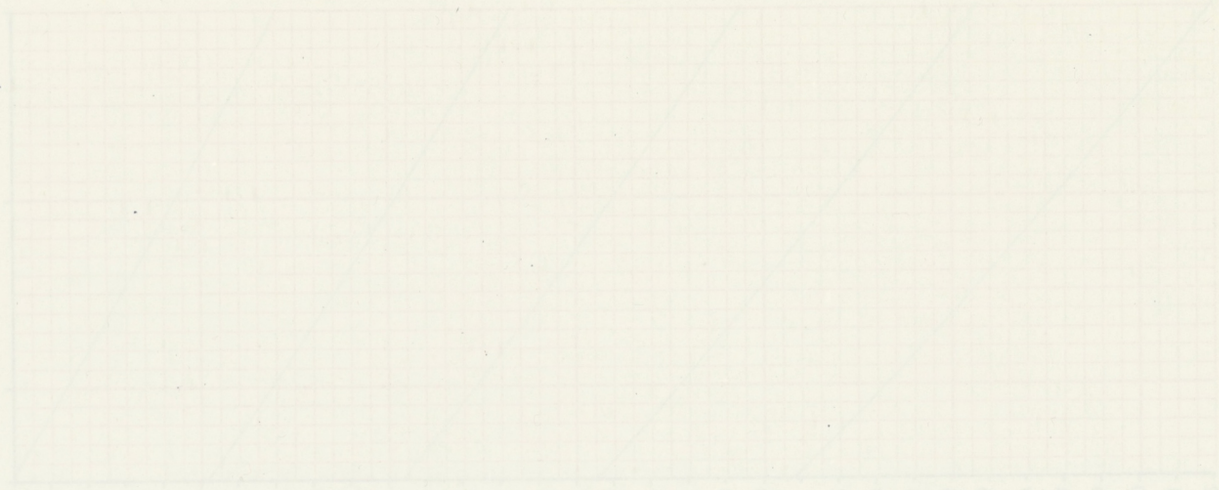
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



75 mm. FLANGE

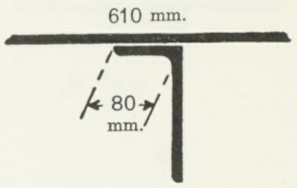
130 mm. DEPTH





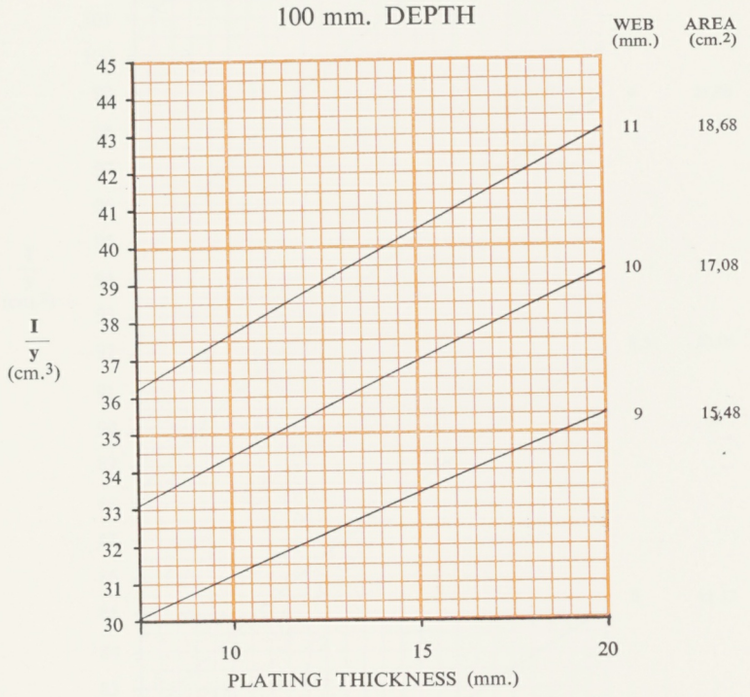
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

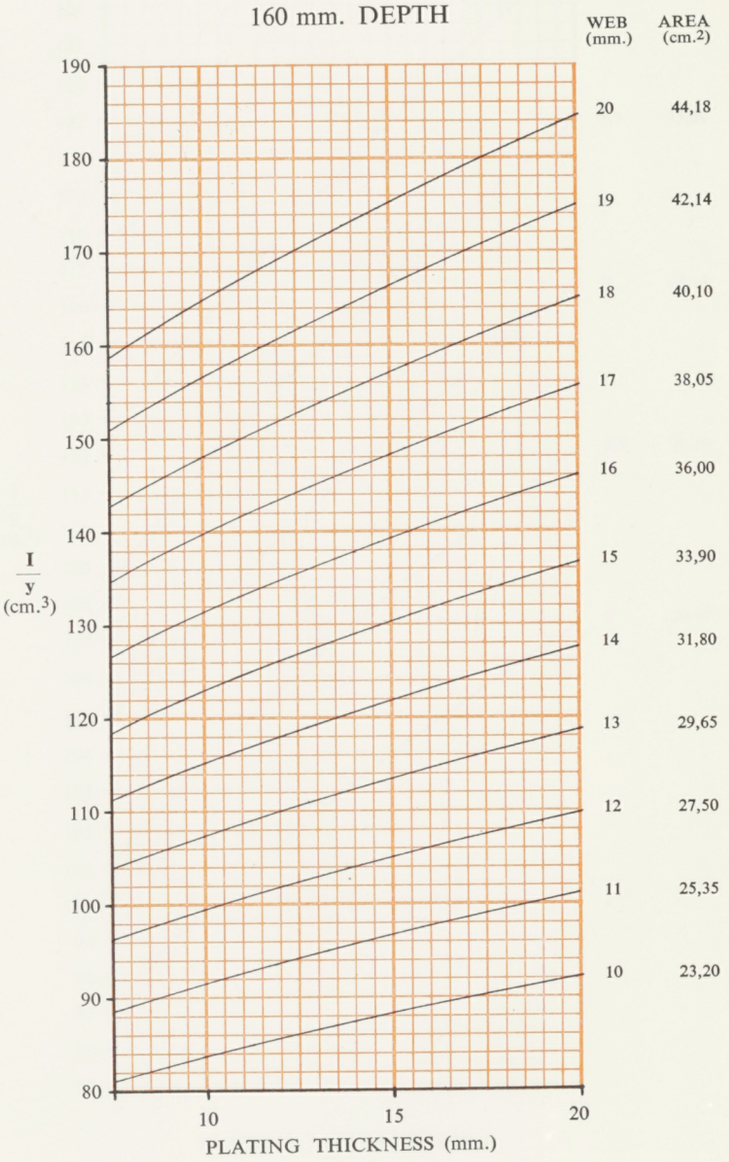


80 mm. FLANGE

100 mm. DEPTH

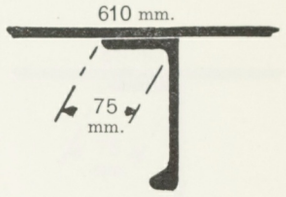


160 mm. DEPTH



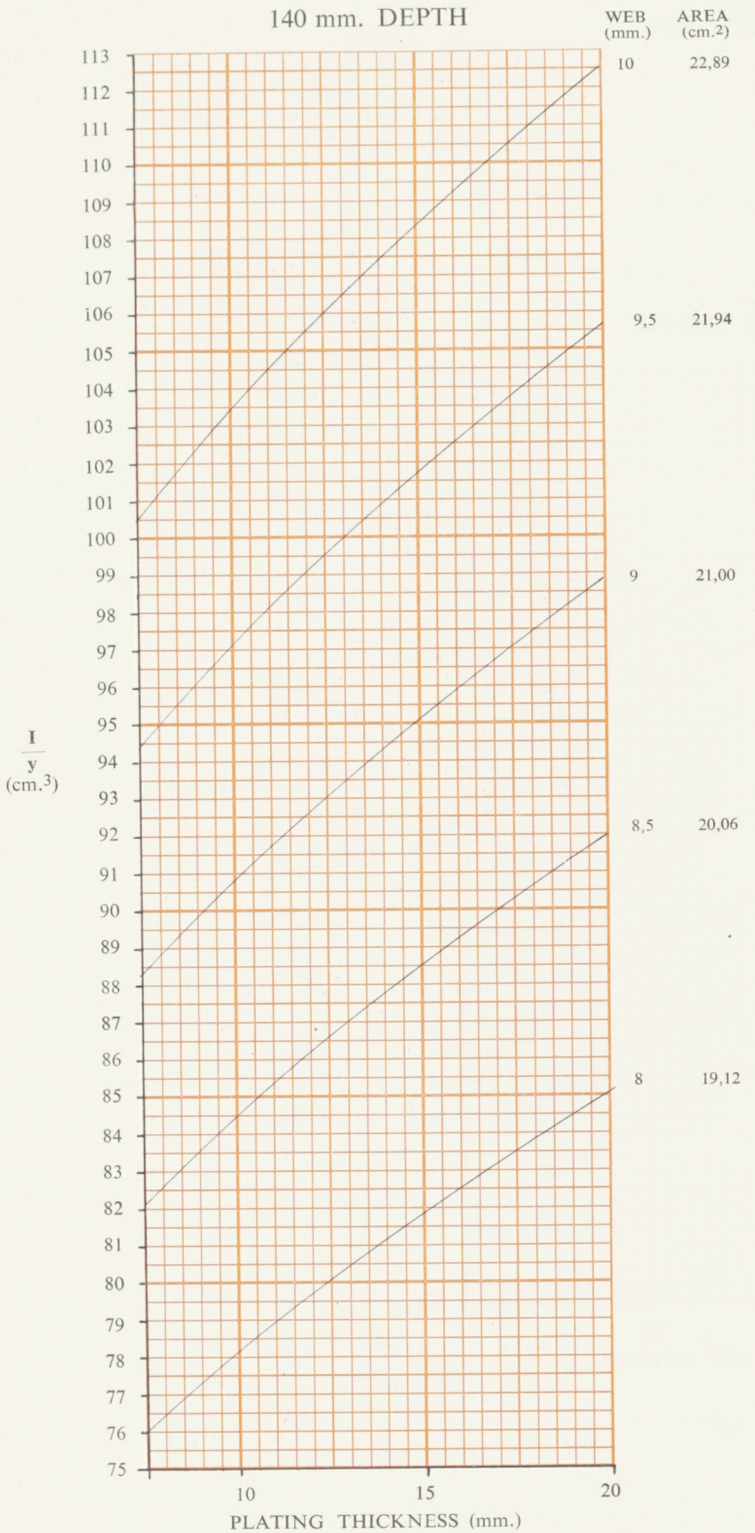
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

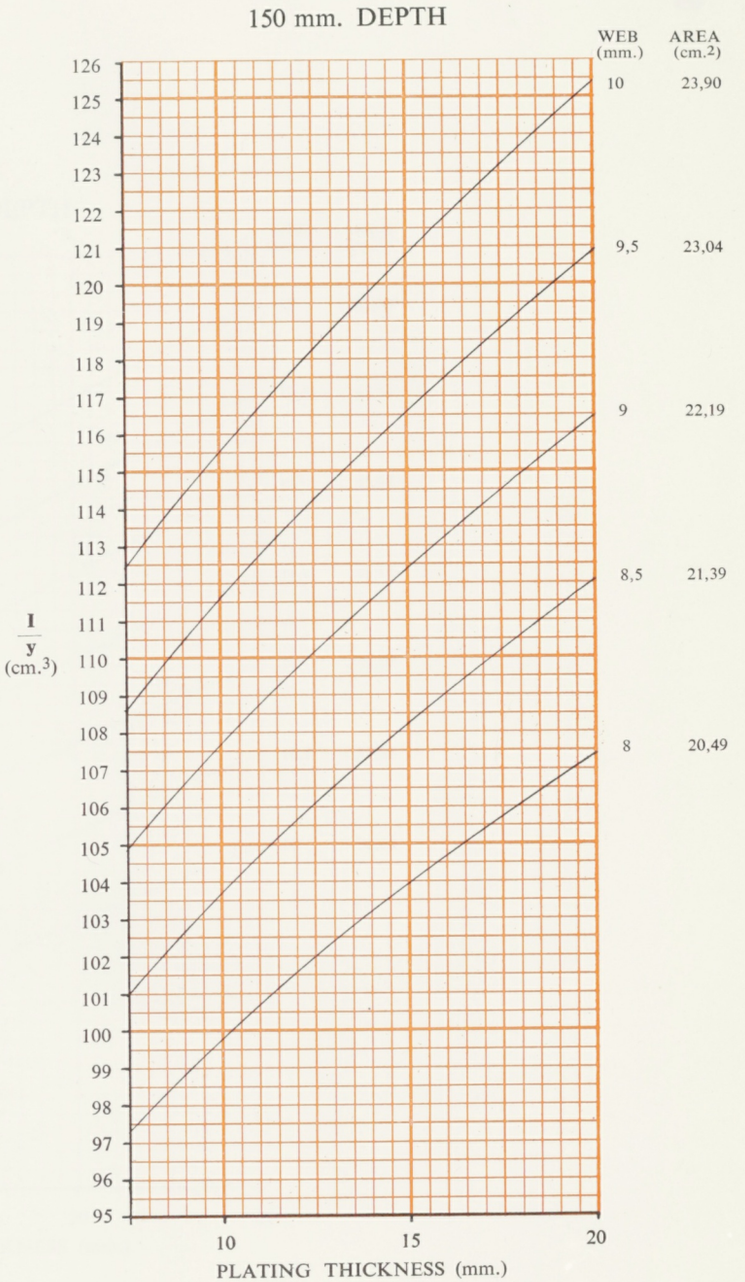


75 mm. FLANGE

140 mm. DEPTH

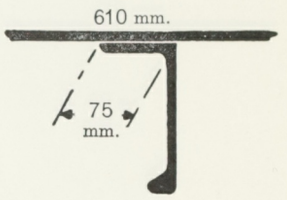


150 mm. DEPTH



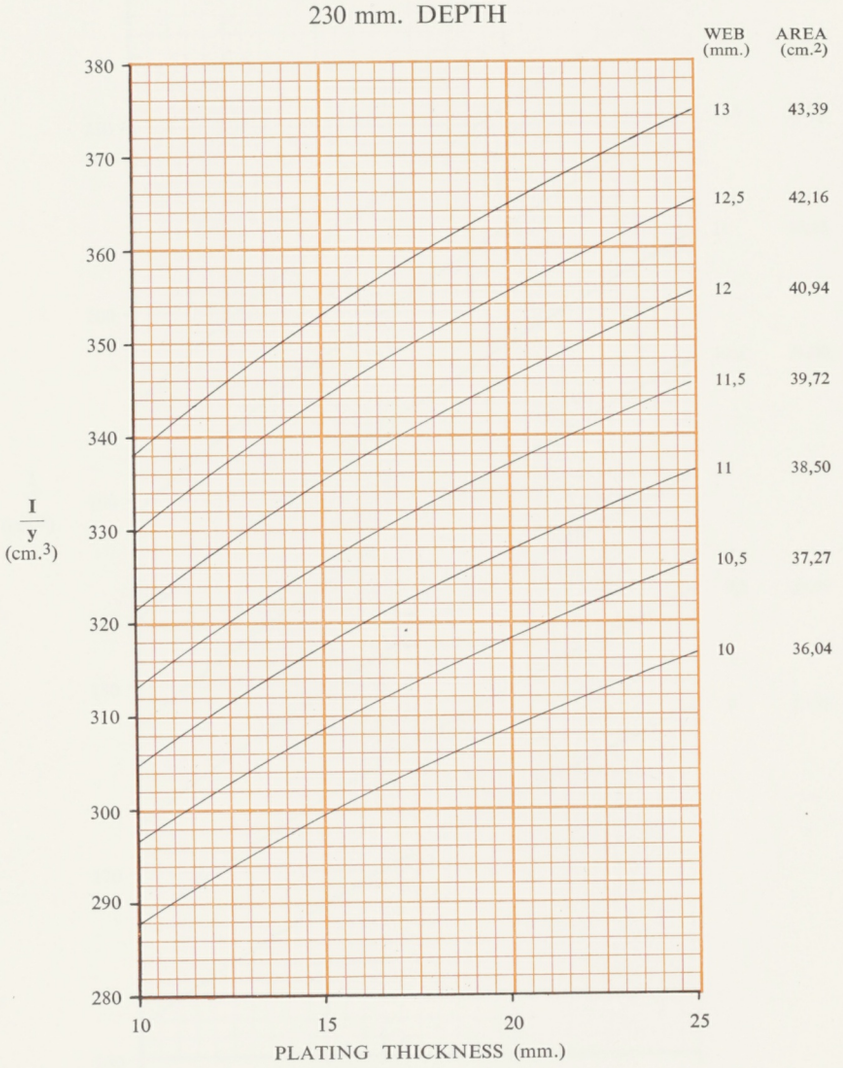
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



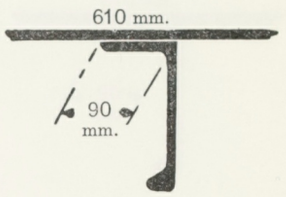
75 mm. FLANGE

230 mm. DEPTH



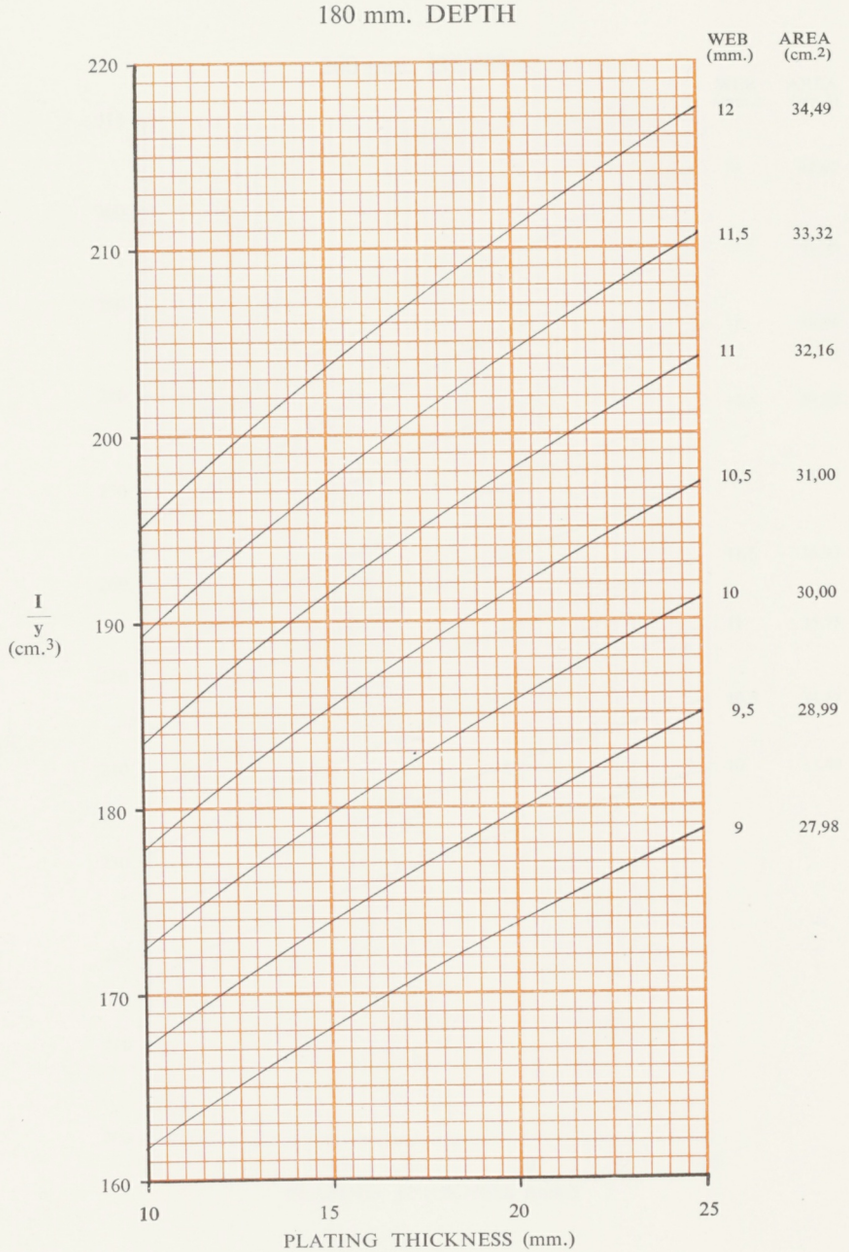
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



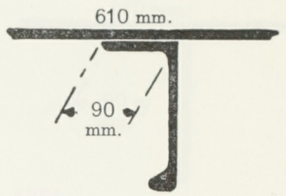
90 mm. FLANGE

180 mm. DEPTH



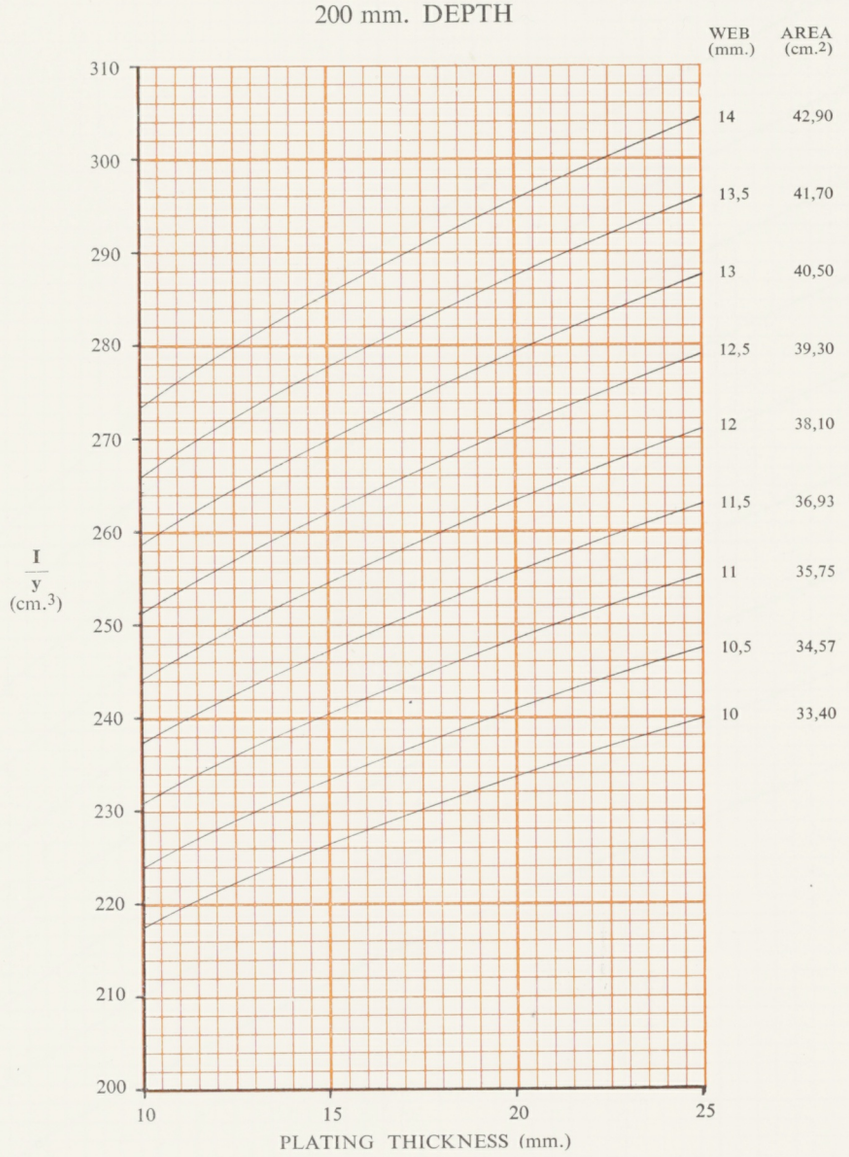
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



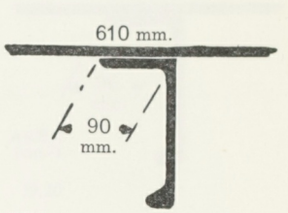
90 mm. FLANGE

200 mm. DEPTH



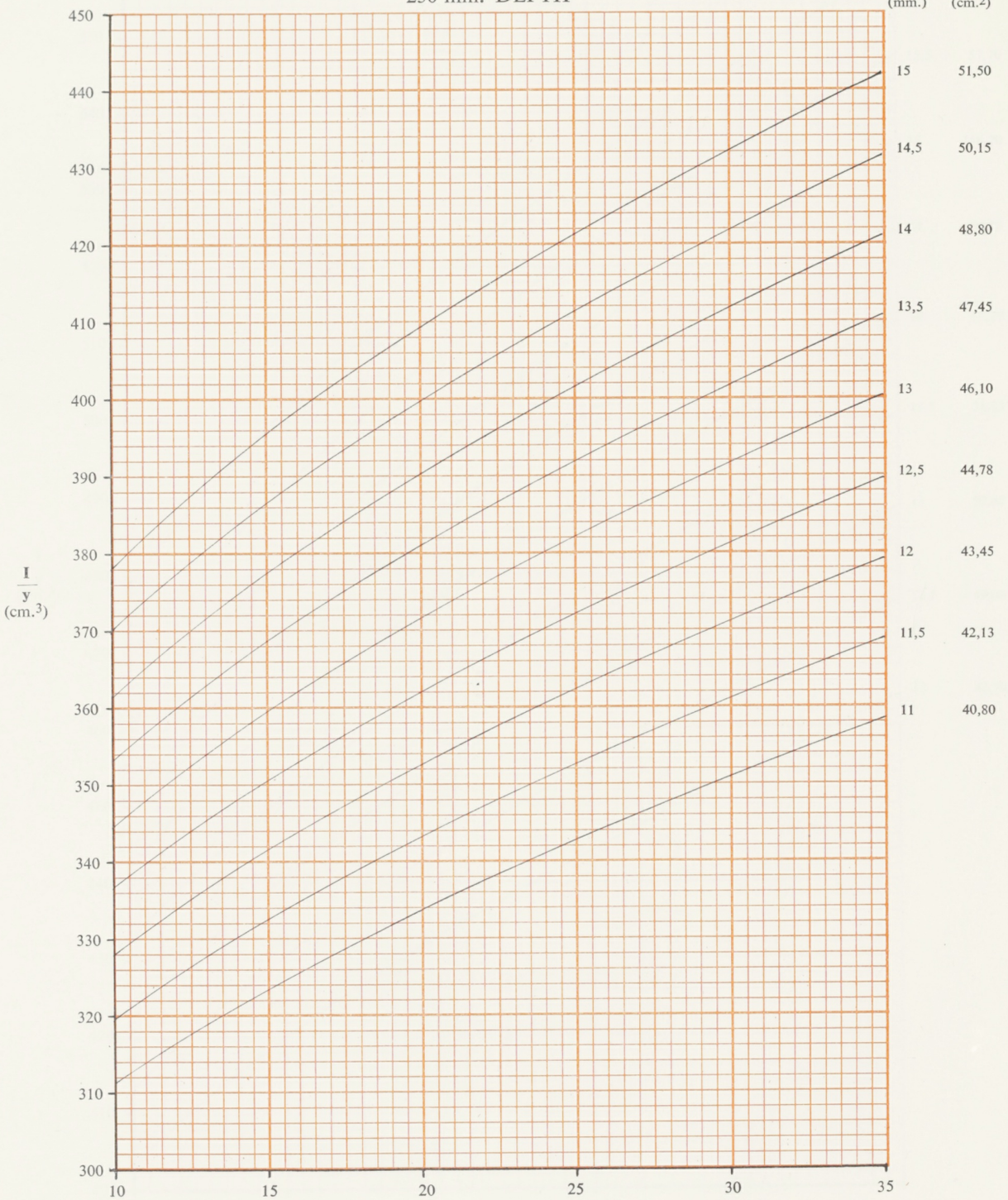
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



90 mm. FLANGE

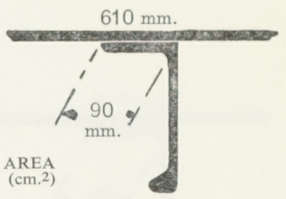
230 mm. DEPTH



WEB (mm.)	AREA (cm.2)
15	51,50
14,5	50,15
14	48,80
13,5	47,45
13	46,10
12,5	44,78
12	43,45
11,5	42,13
11	40,80

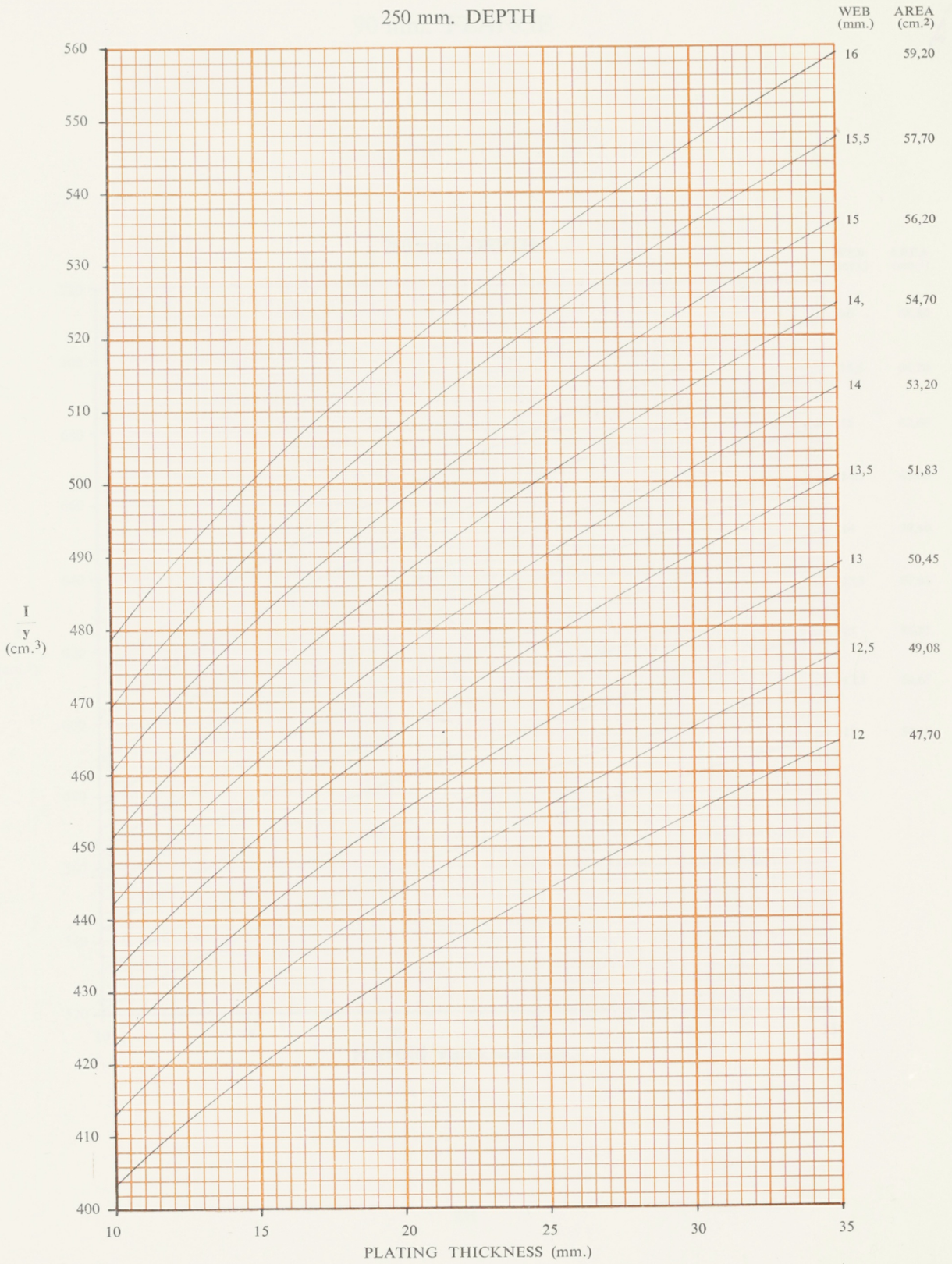
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



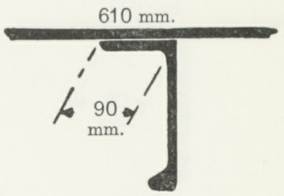
90 mm. FLANGE

250 mm. DEPTH



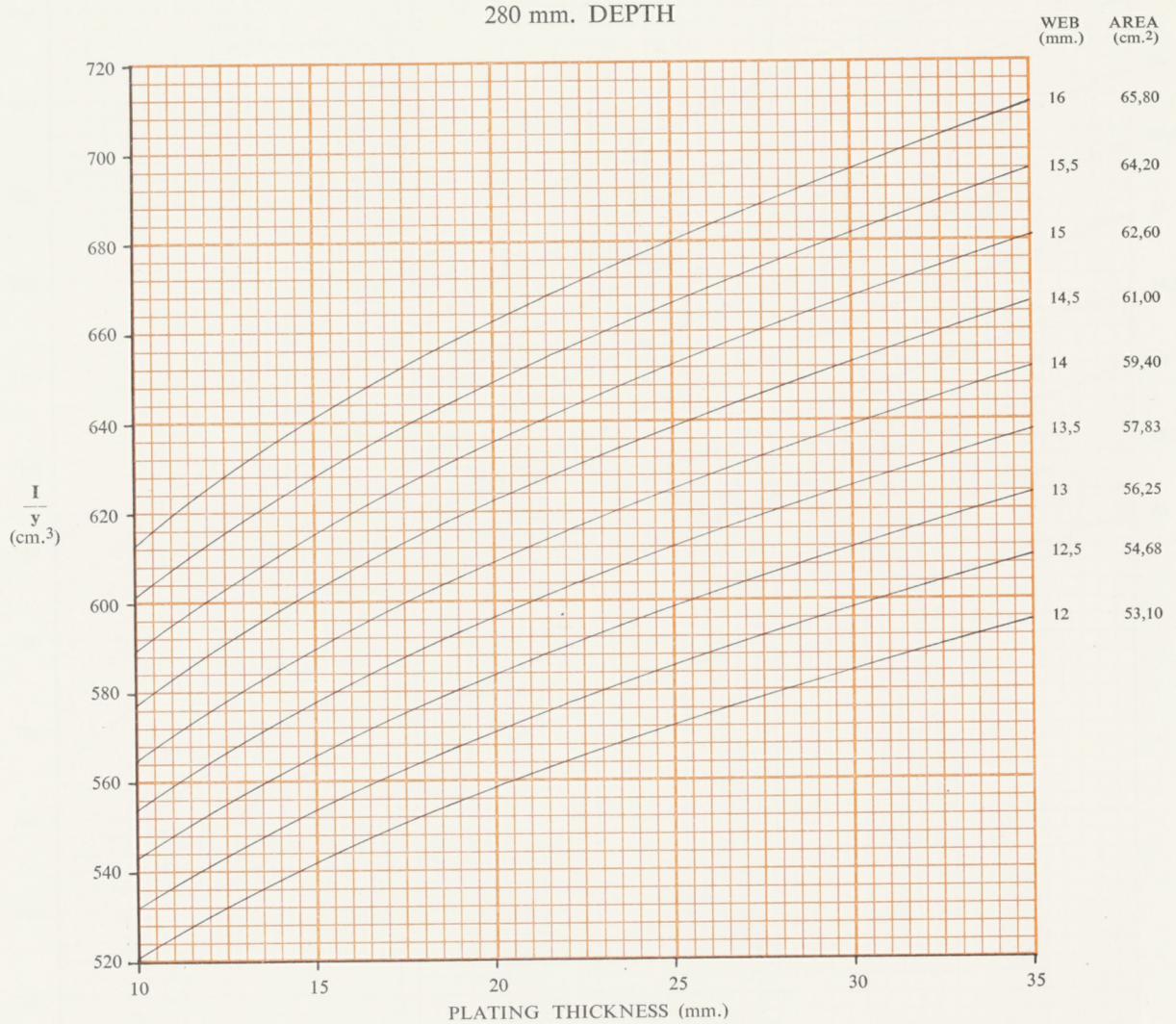
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



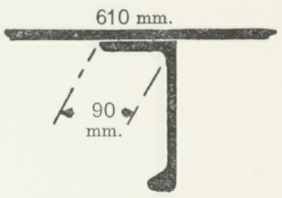
90 mm. FLANGE

280 mm. DEPTH



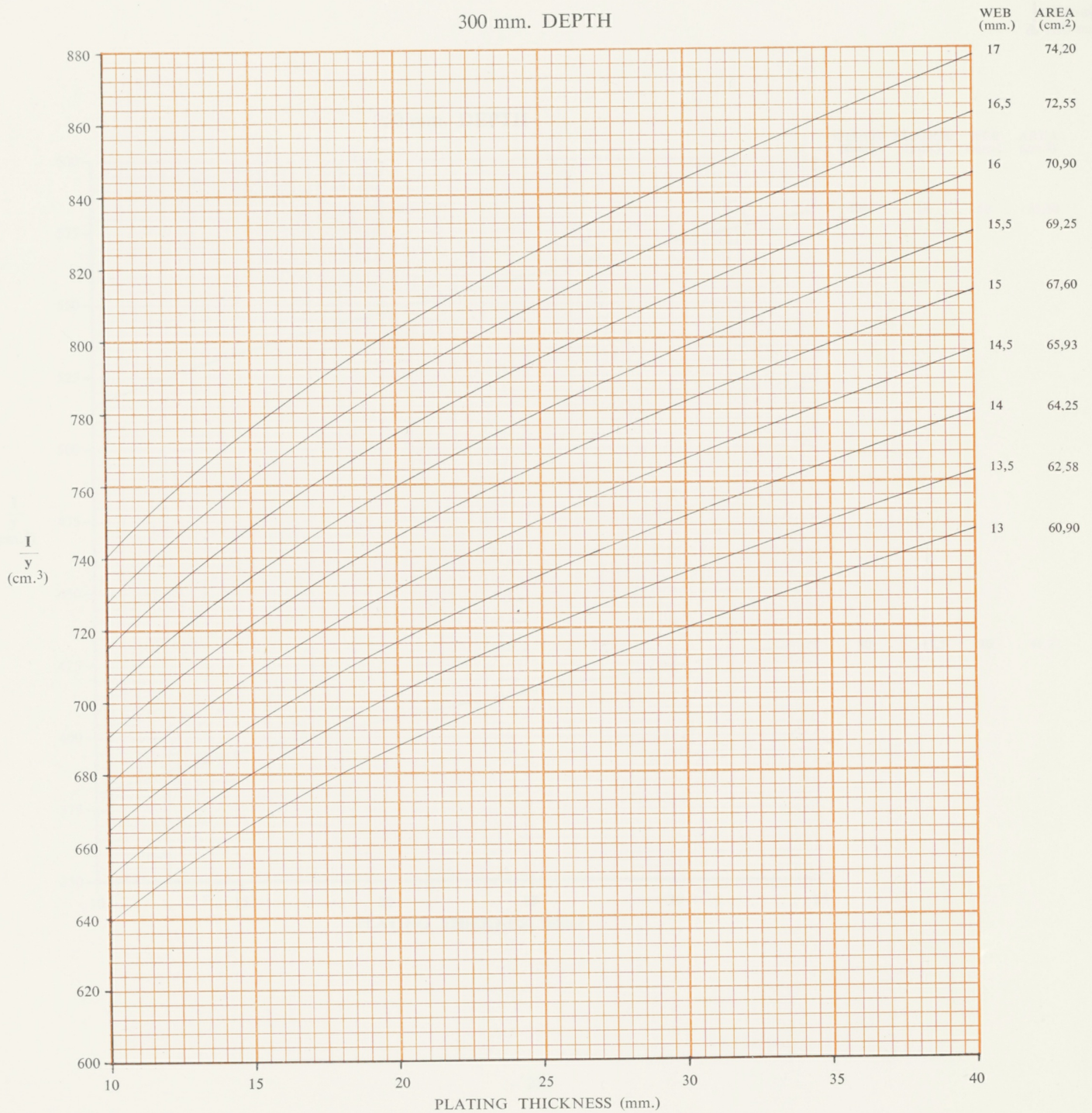
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



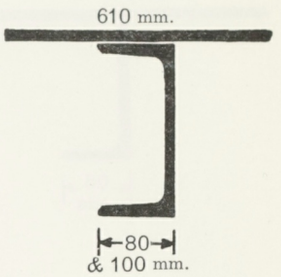
90 mm. FLANGE

300 mm. DEPTH

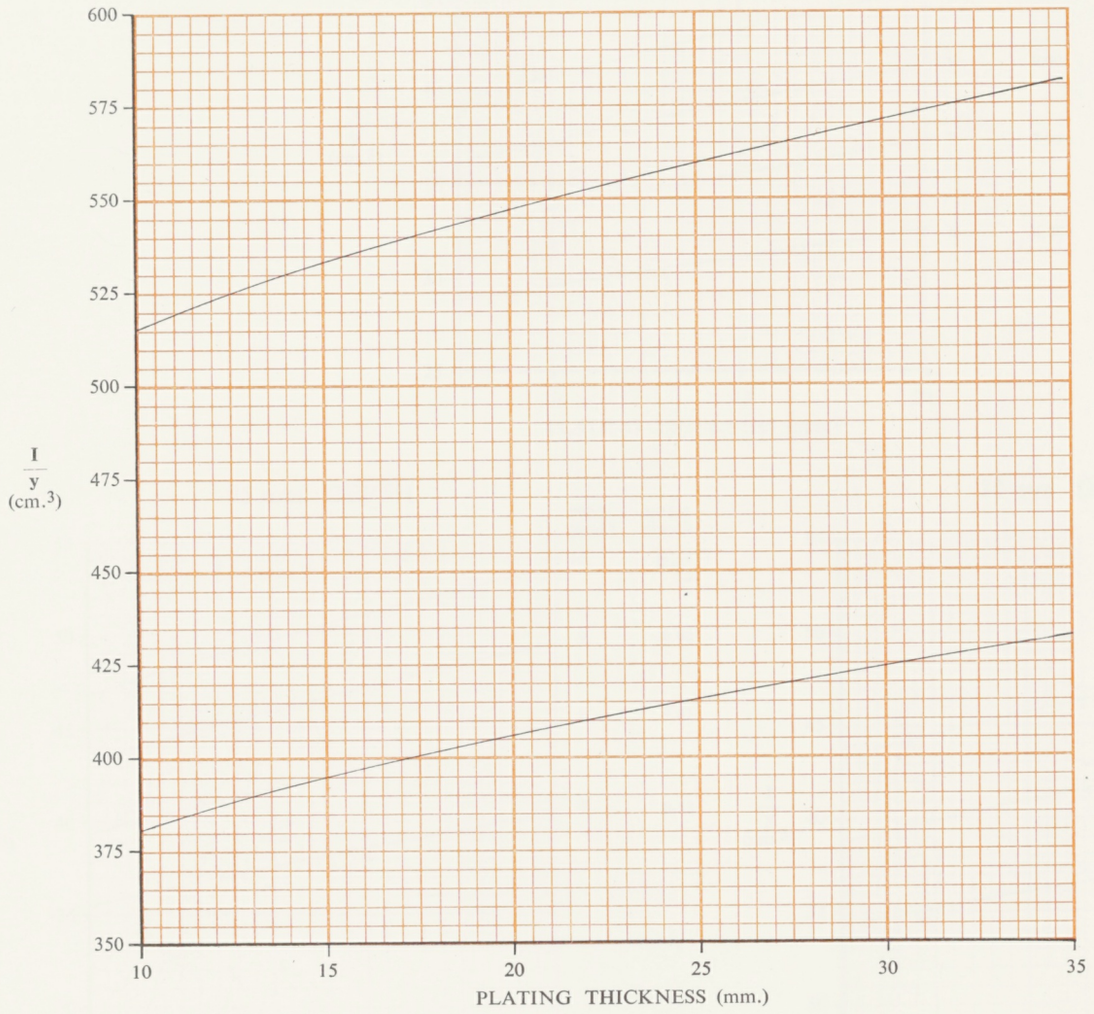


SECTION MODULUS AND AREA OF CHANNELS

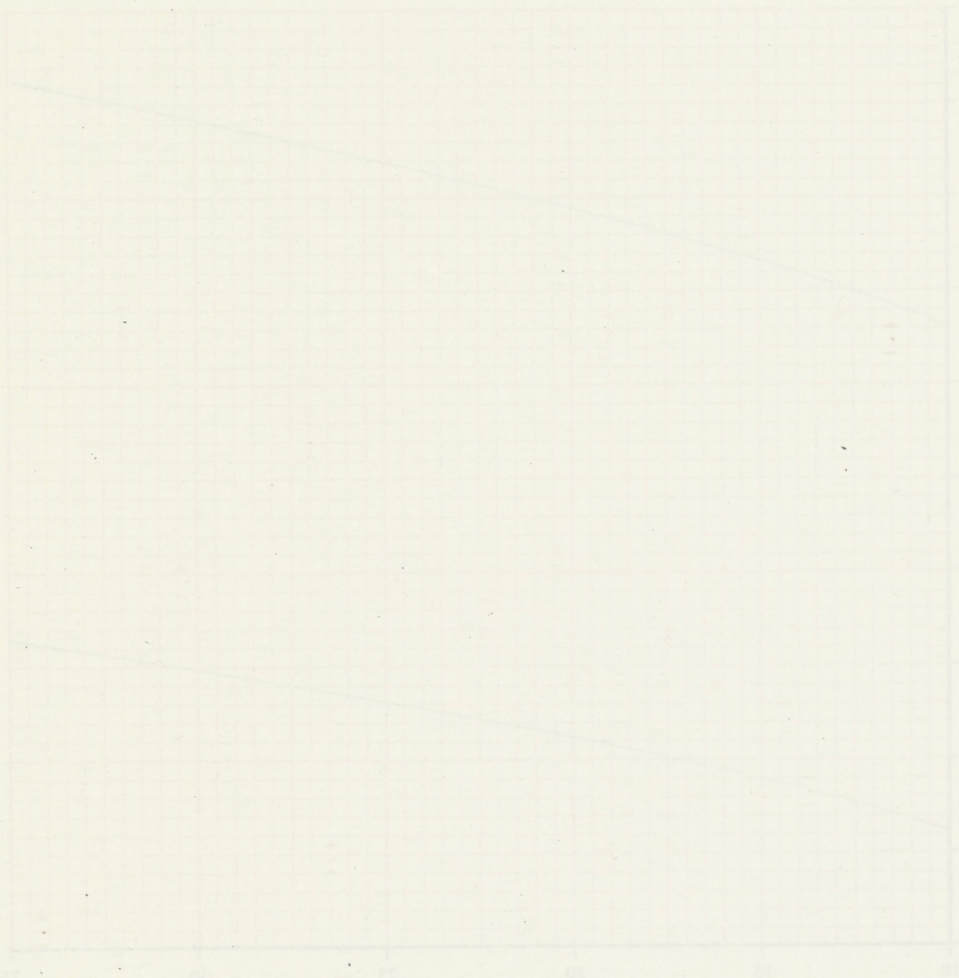
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



250 mm. DEPTH

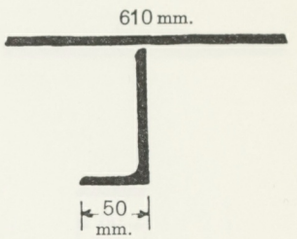


WIDTH (mm.)	FLANGE (mm.)	WEB (mm.)	AREA (cm.2)
100	16	10	53,80
80	11,5	10	41,37



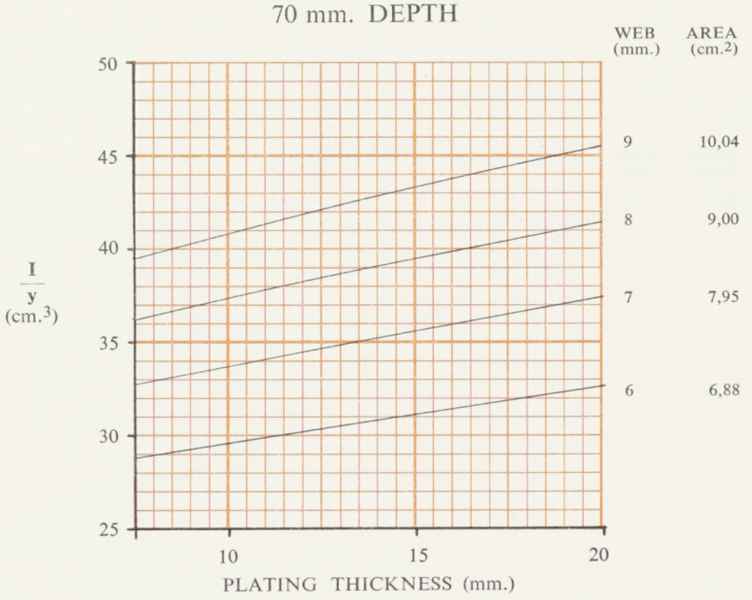
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

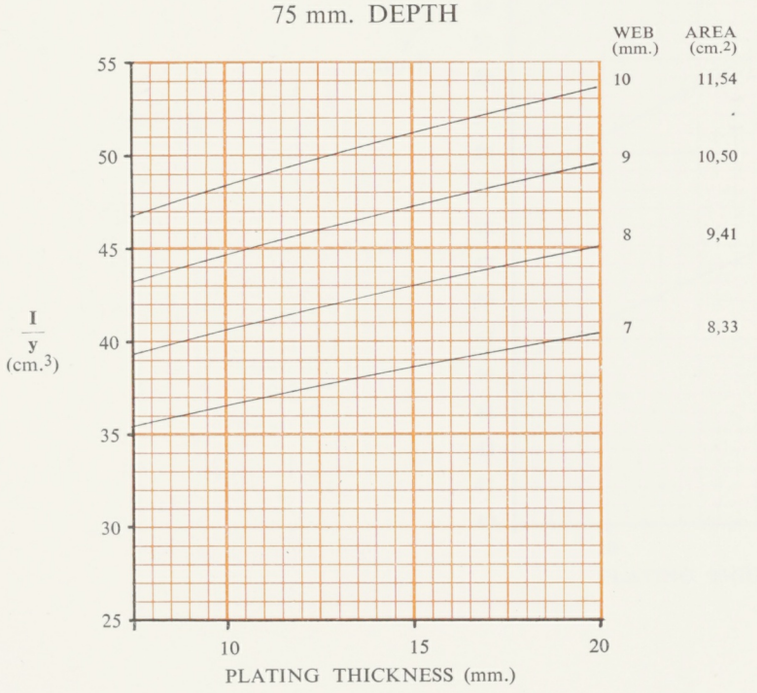


50 mm. FLANGE

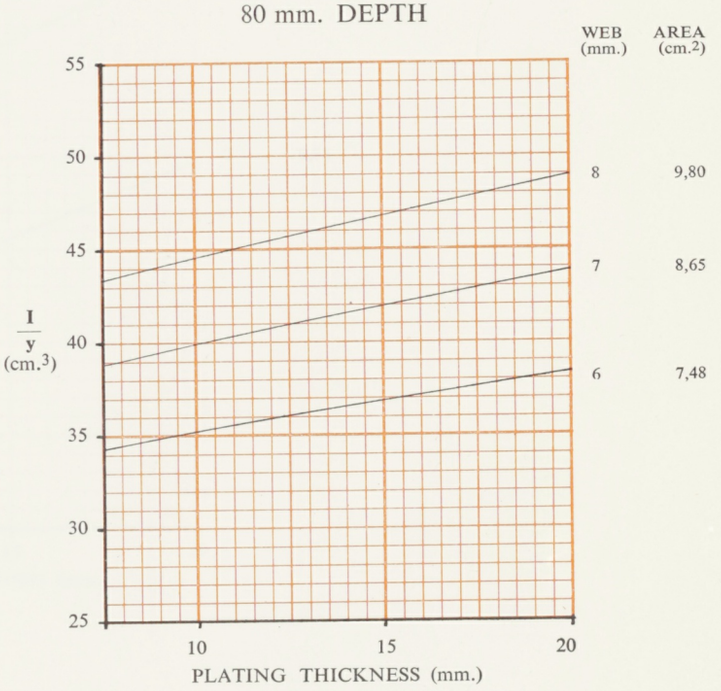
70 mm. DEPTH



75 mm. DEPTH

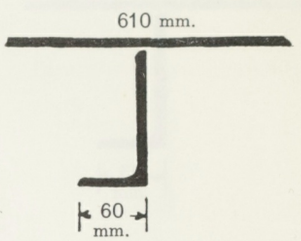


80 mm. DEPTH

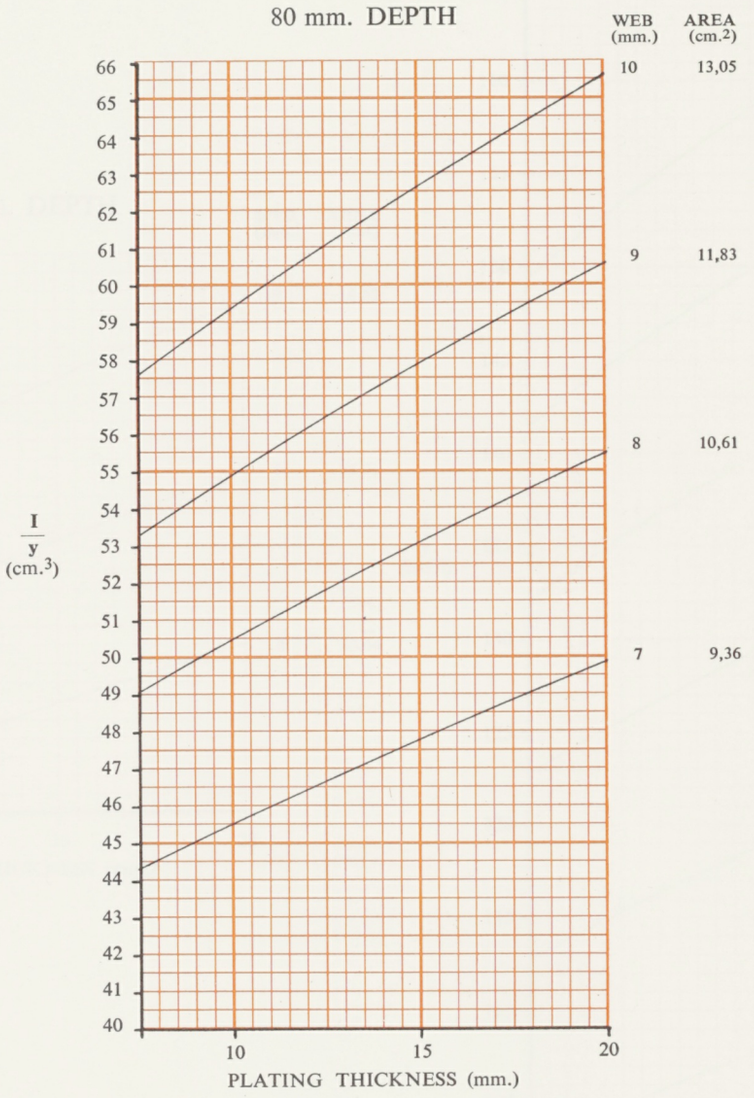


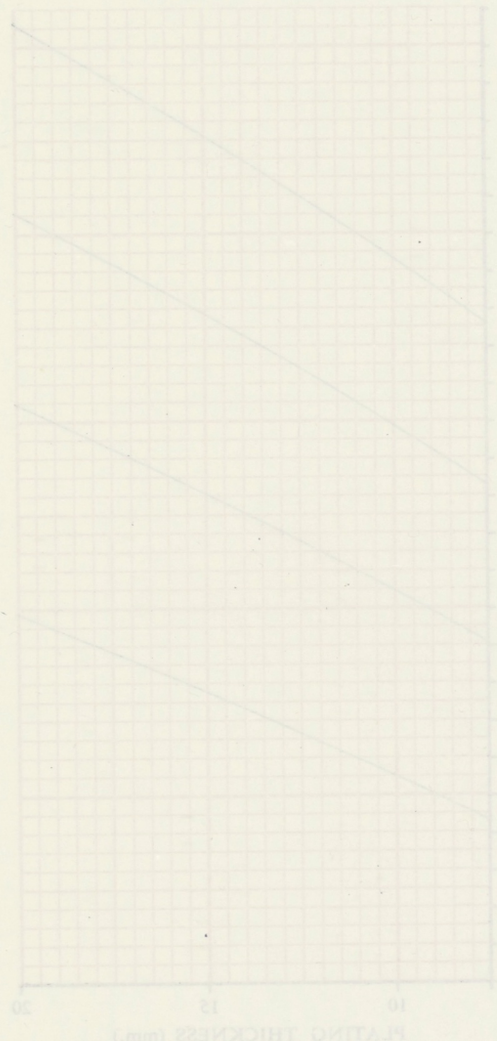
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



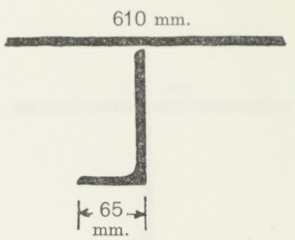
60 mm. FLANGE





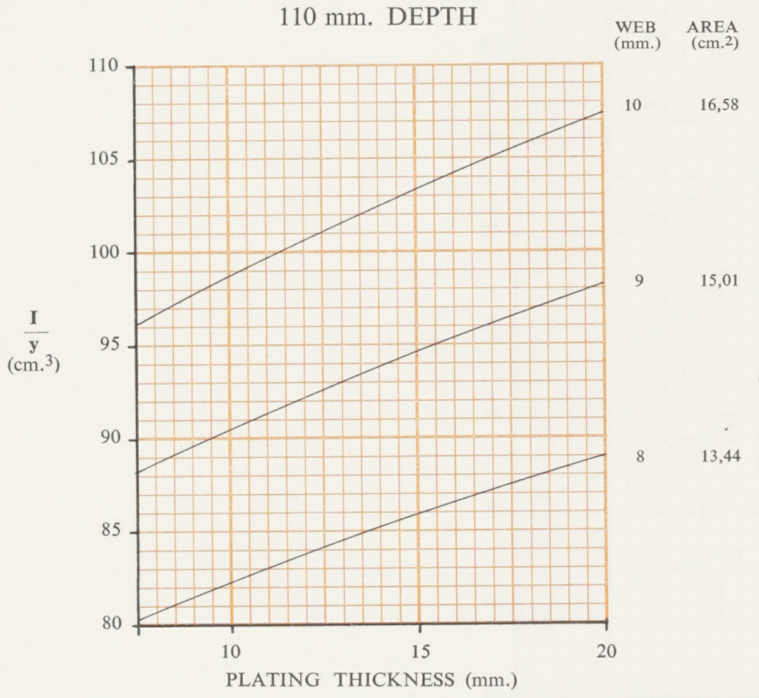
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

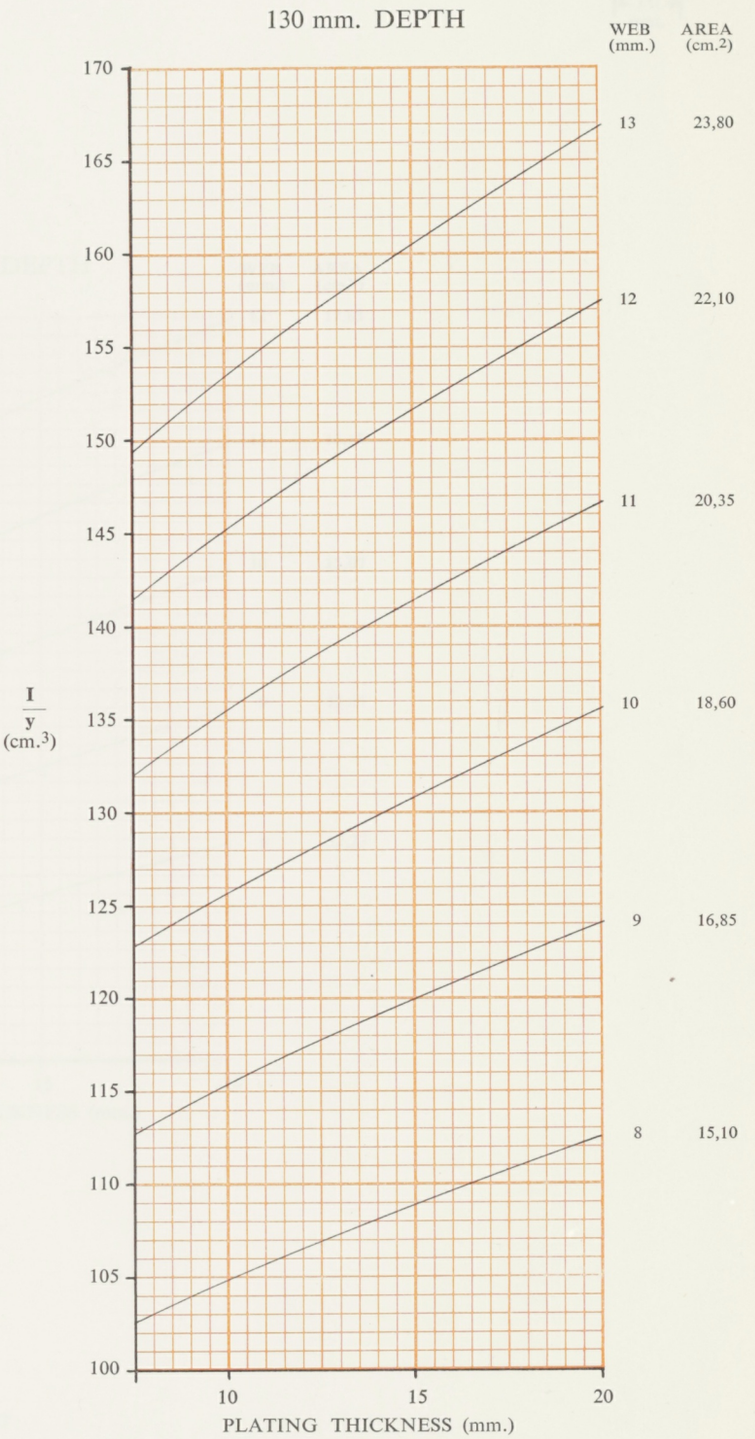


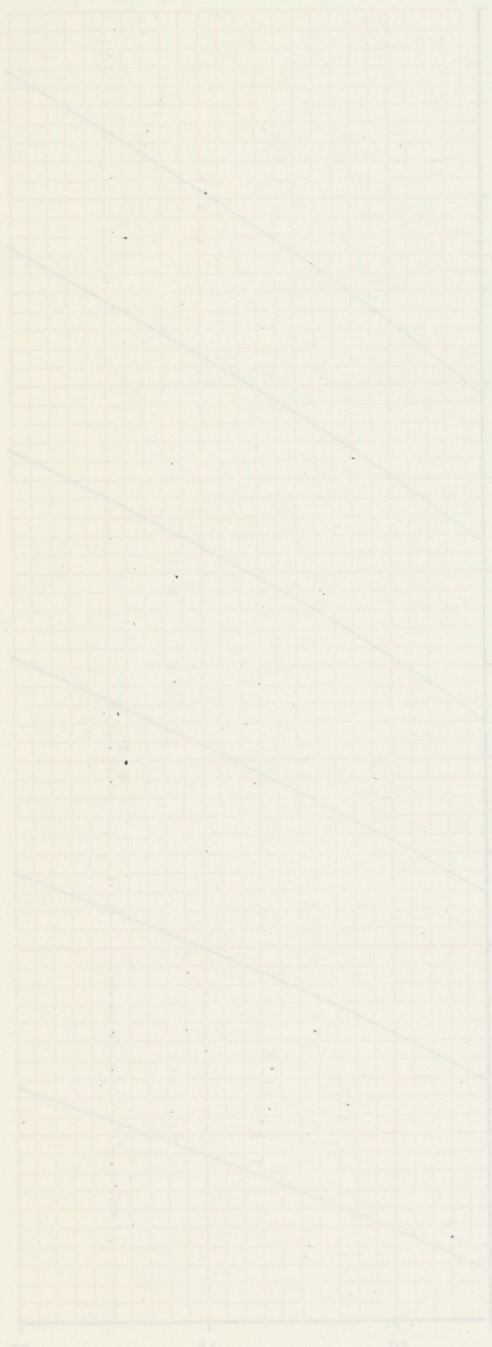
65 mm. FLANGE

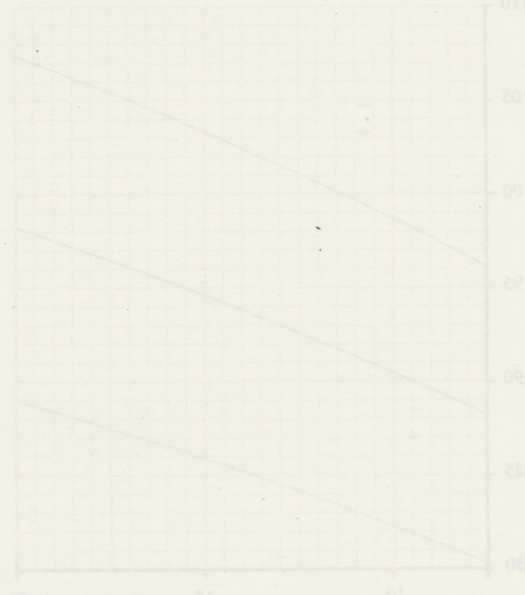
110 mm. DEPTH



130 mm. DEPTH

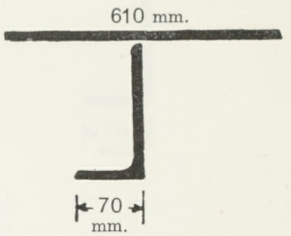




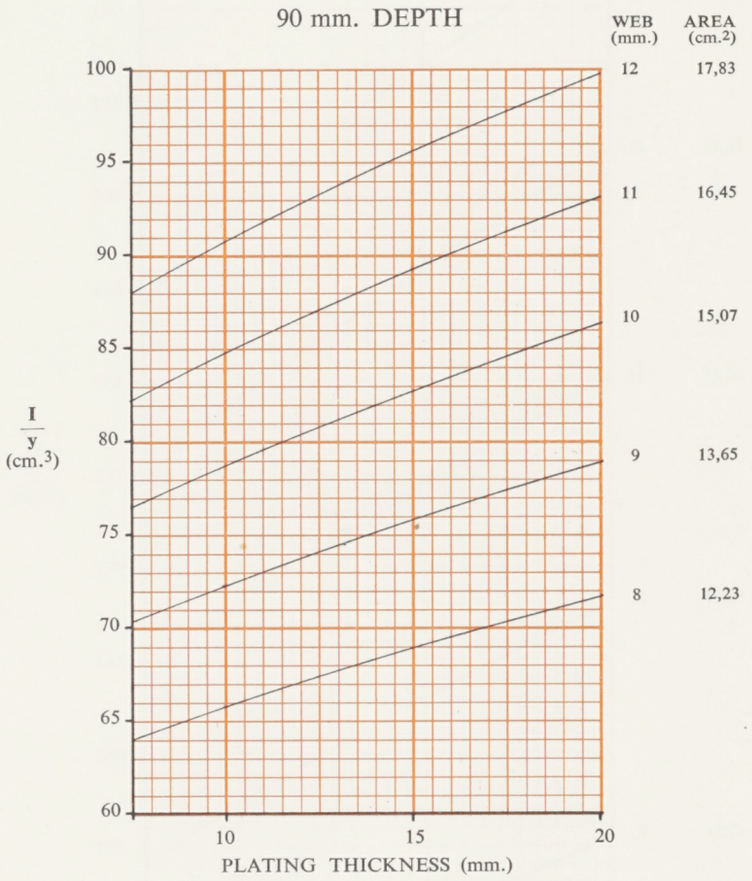


SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

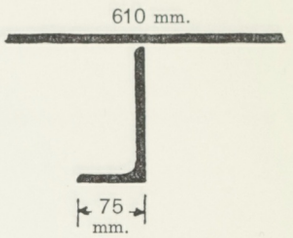


70 mm. FLANGE



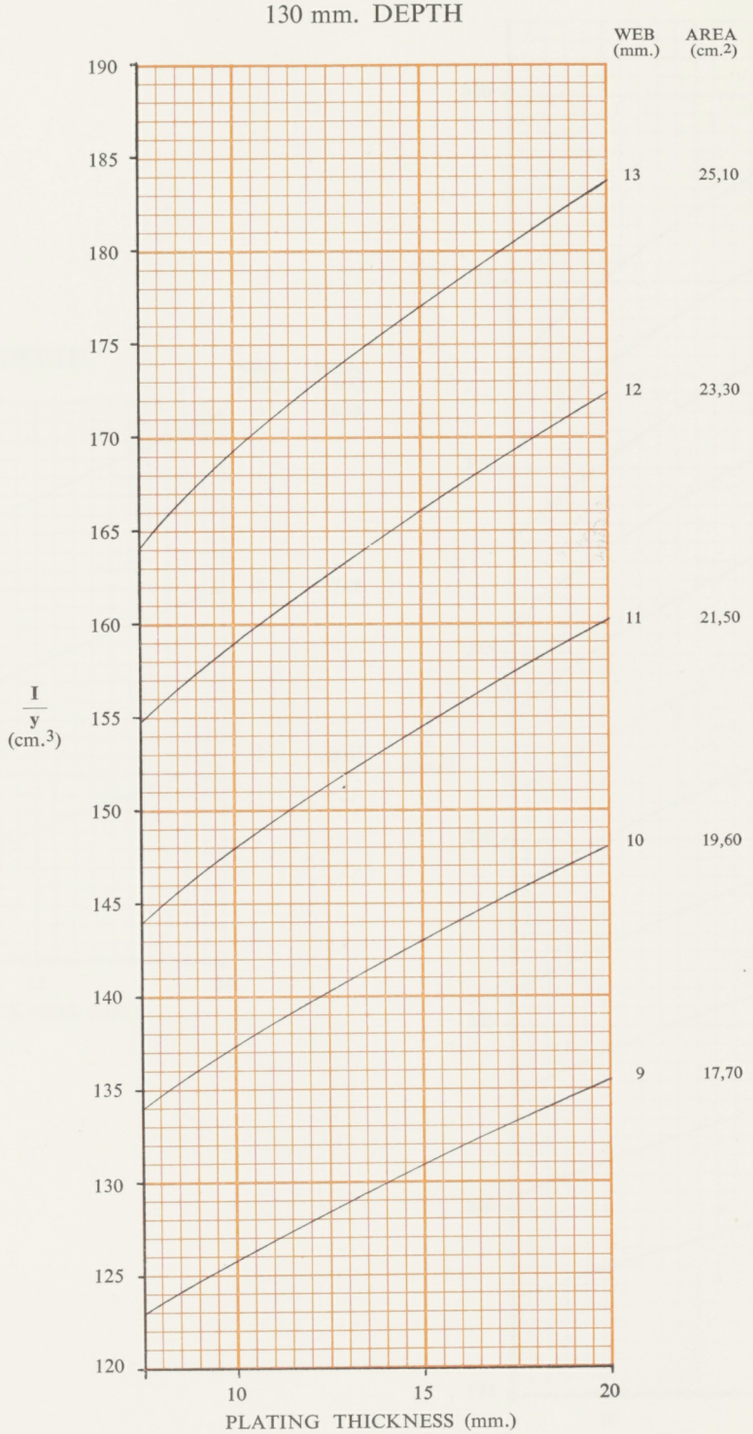
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



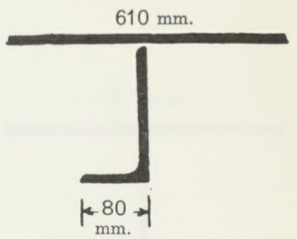
75 mm. FLANGE

130 mm. DEPTH



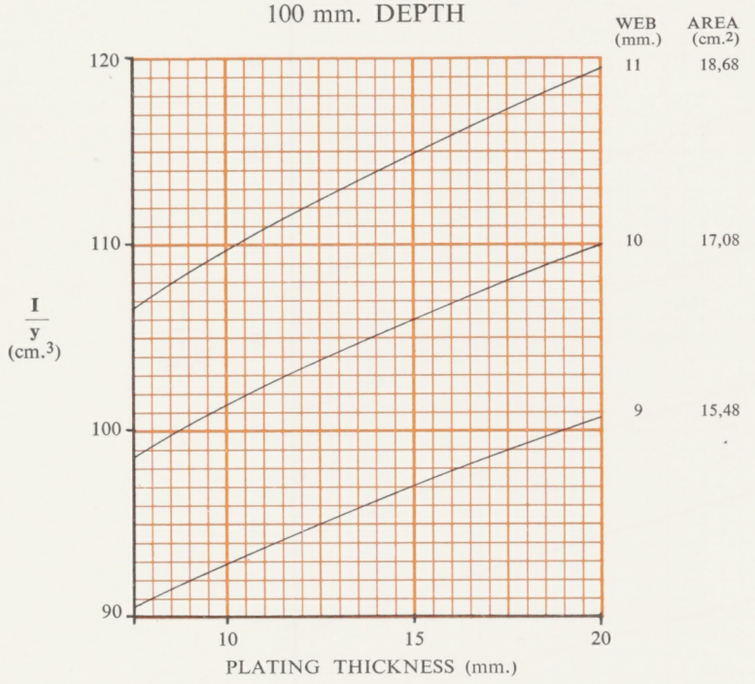
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

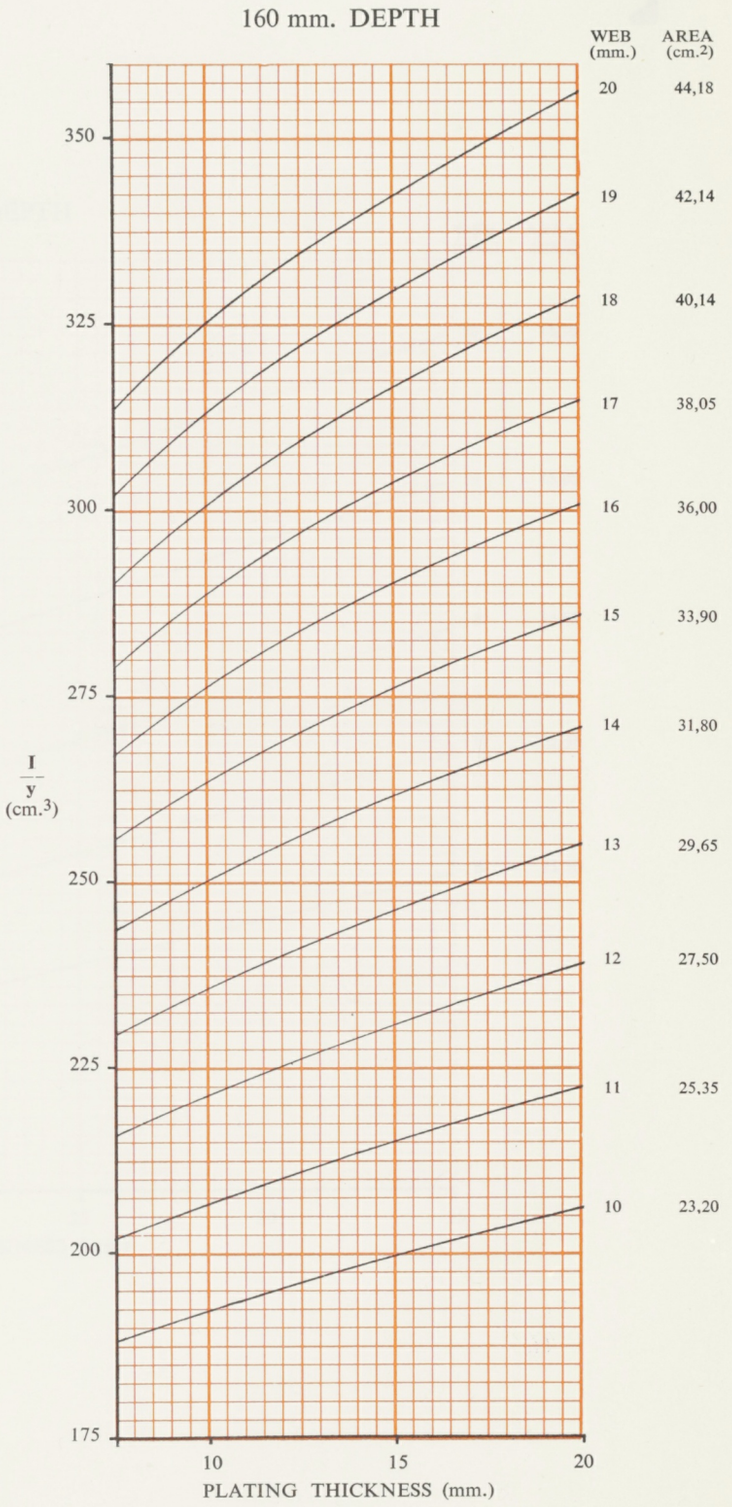


80 mm. FLANGE

100 mm. DEPTH

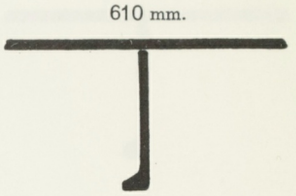


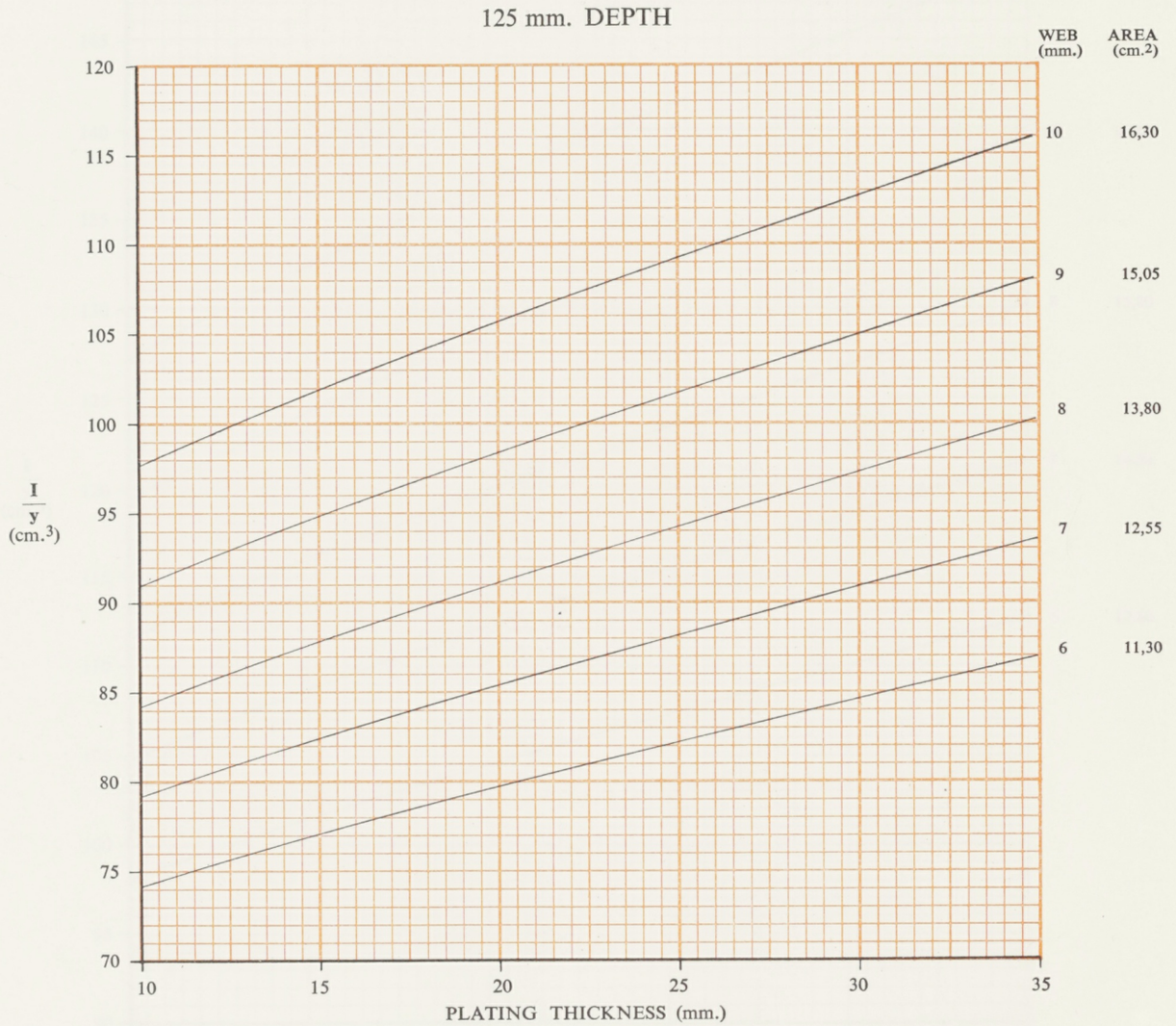
160 mm. DEPTH



SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

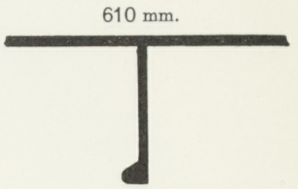
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

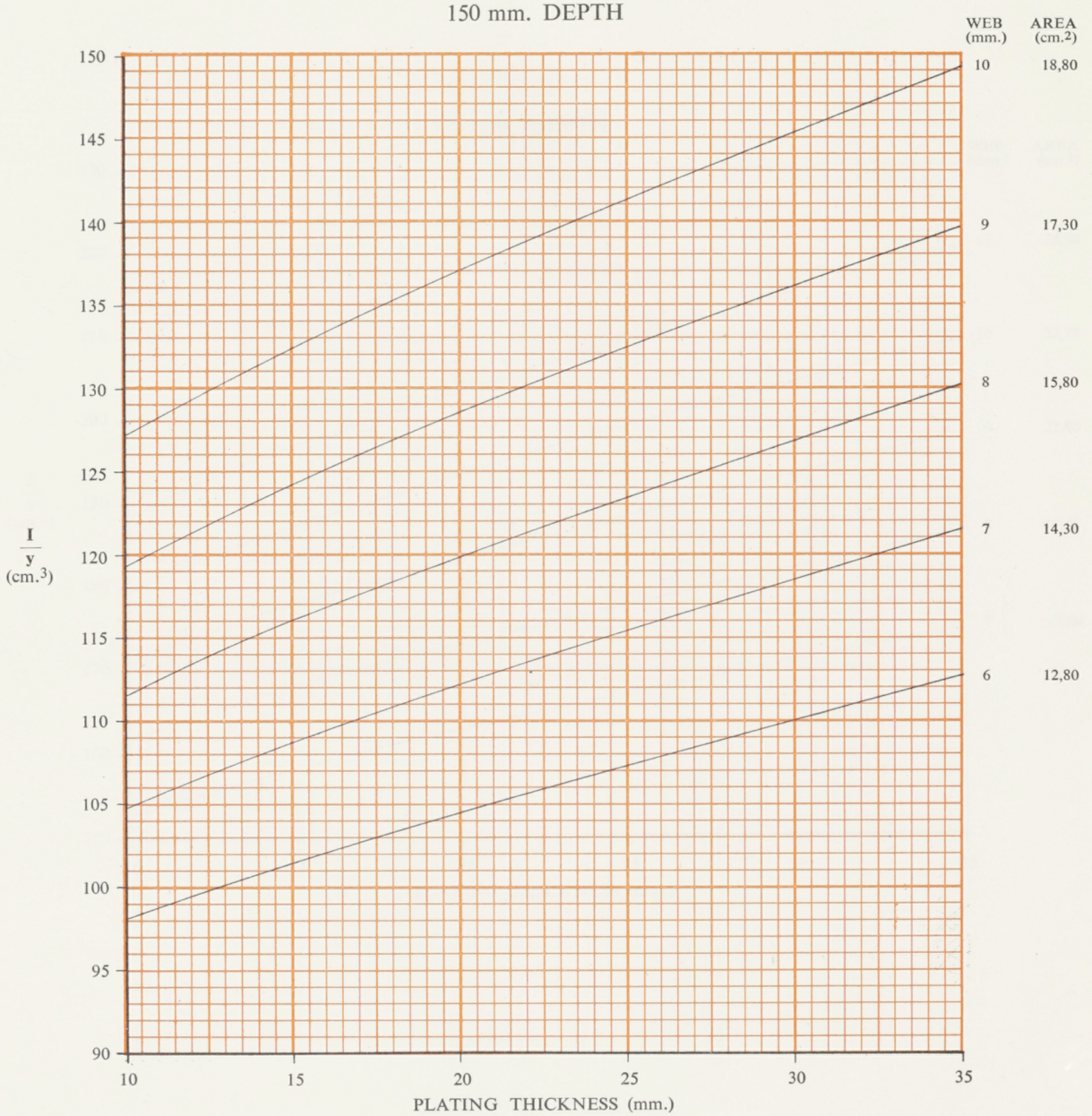




SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

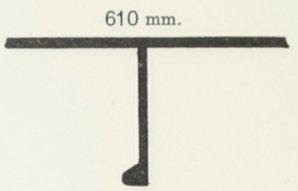
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



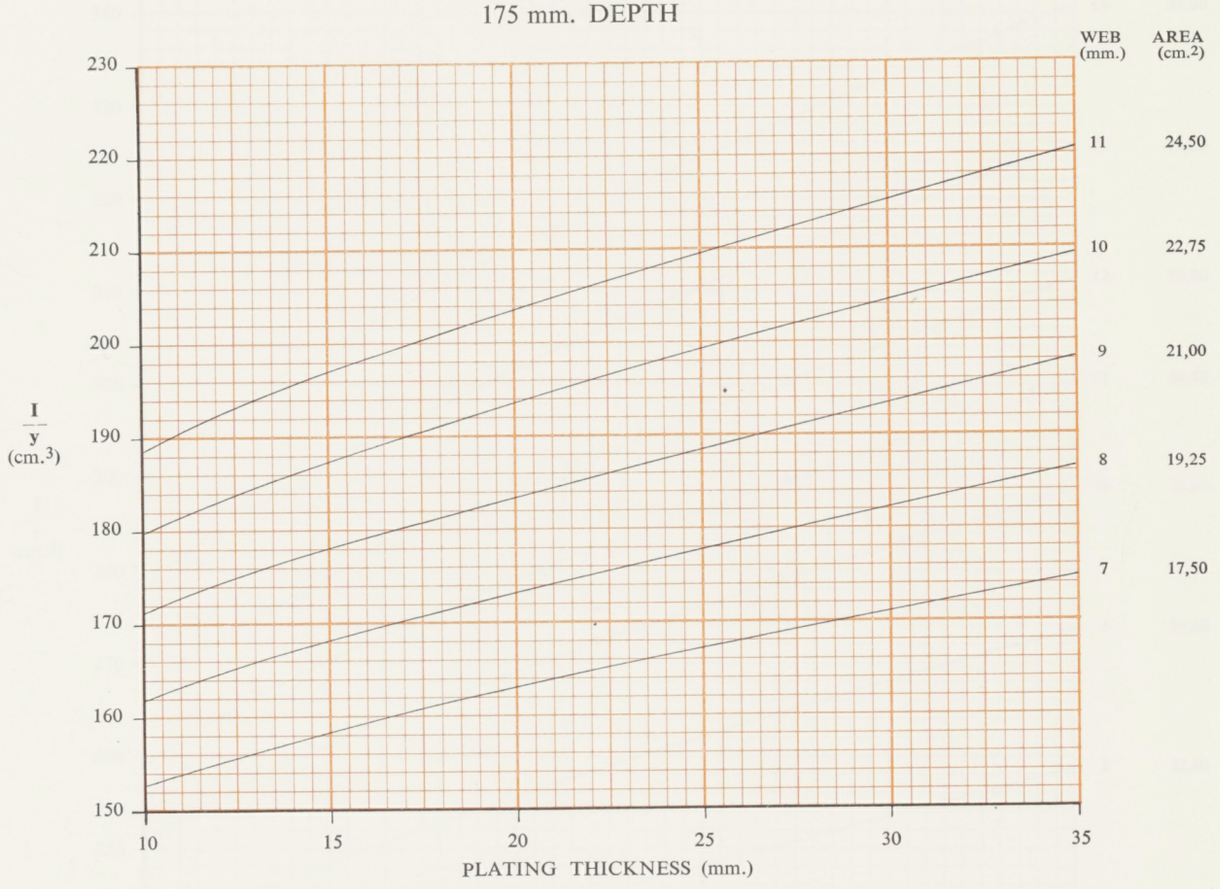


SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

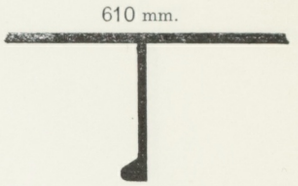


175 mm. DEPTH

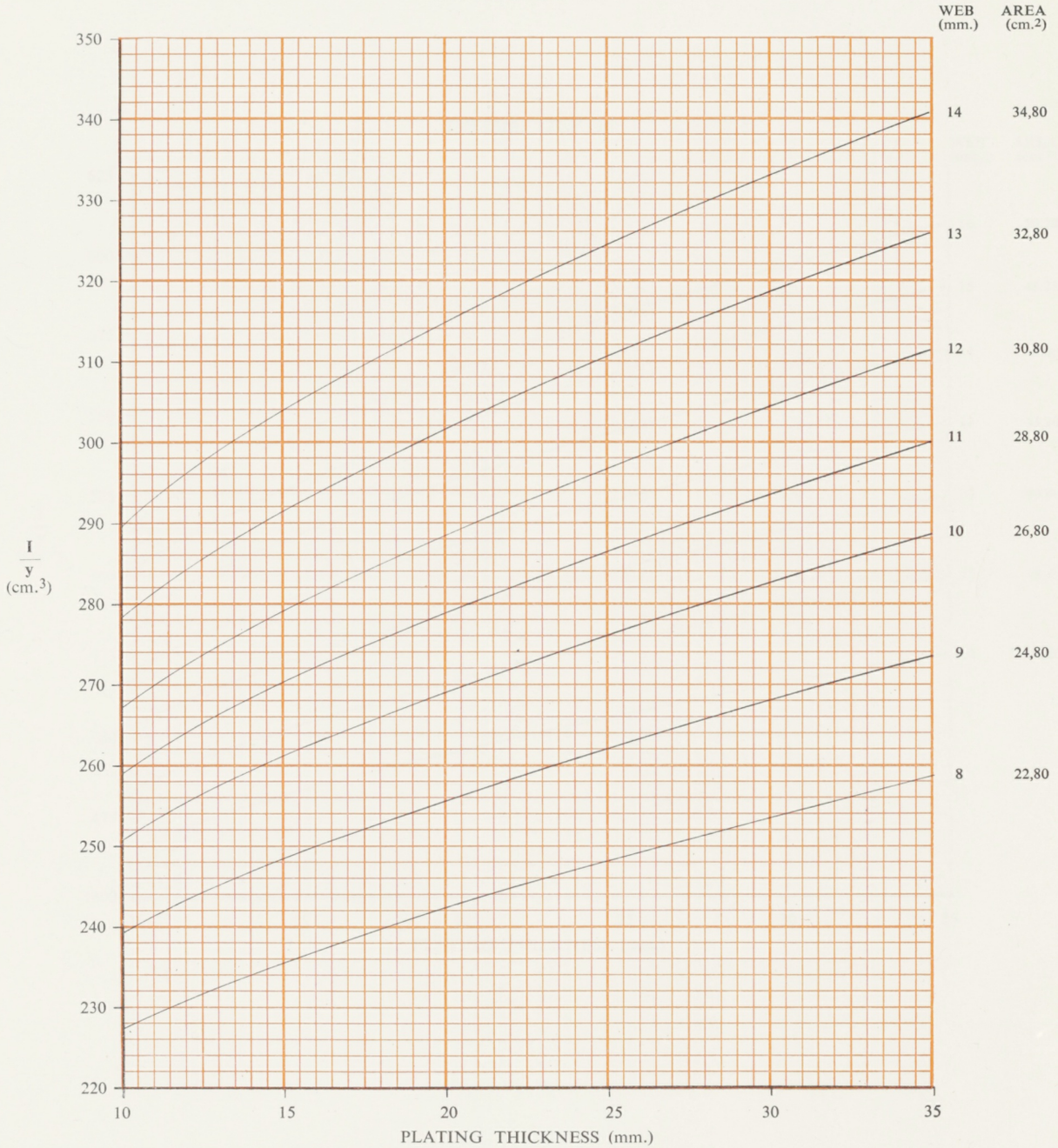


SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

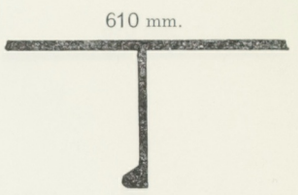


200 mm. DEPTH

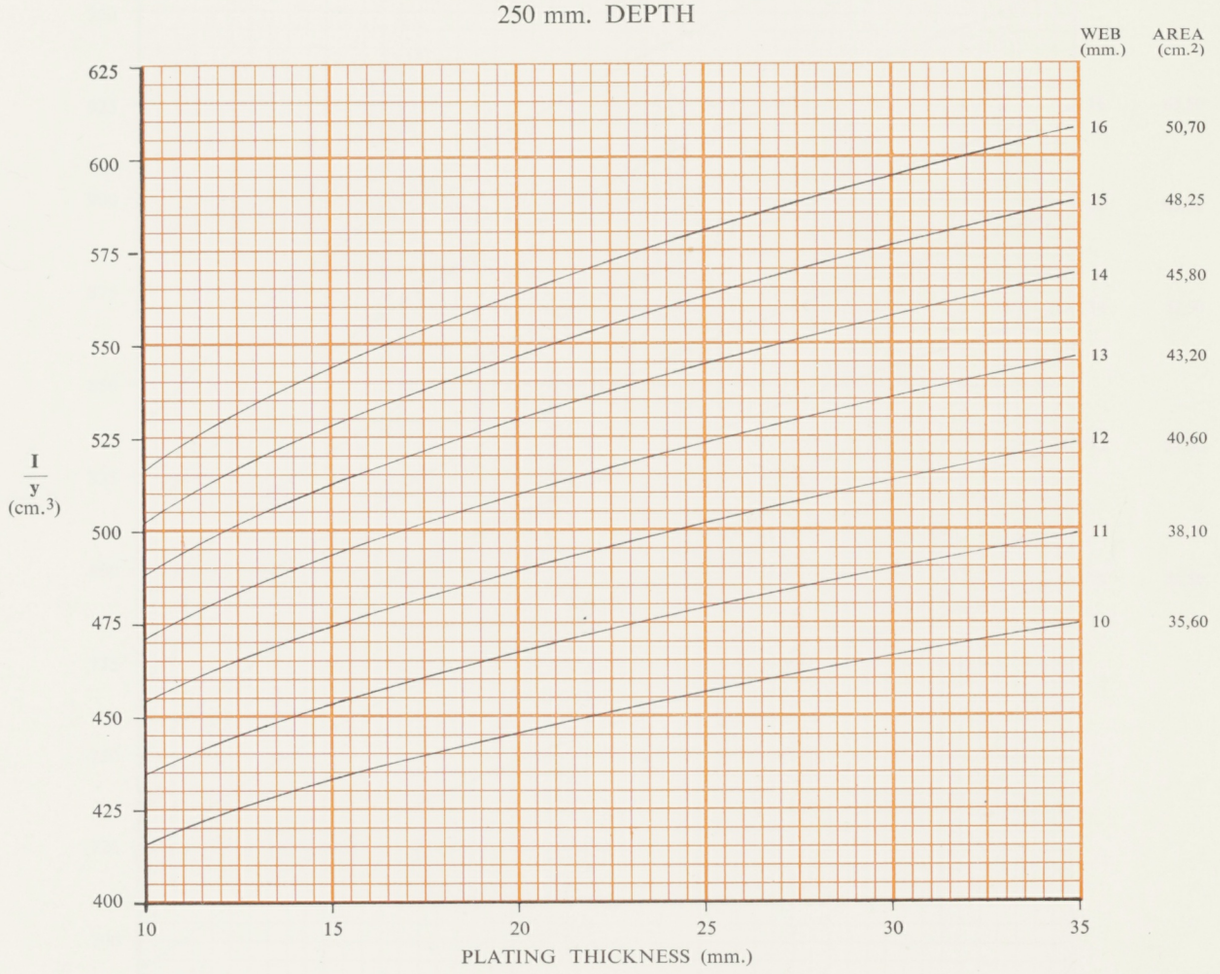


SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

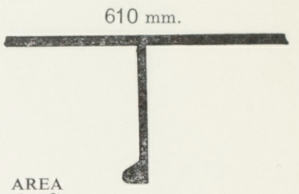


250 mm. DEPTH

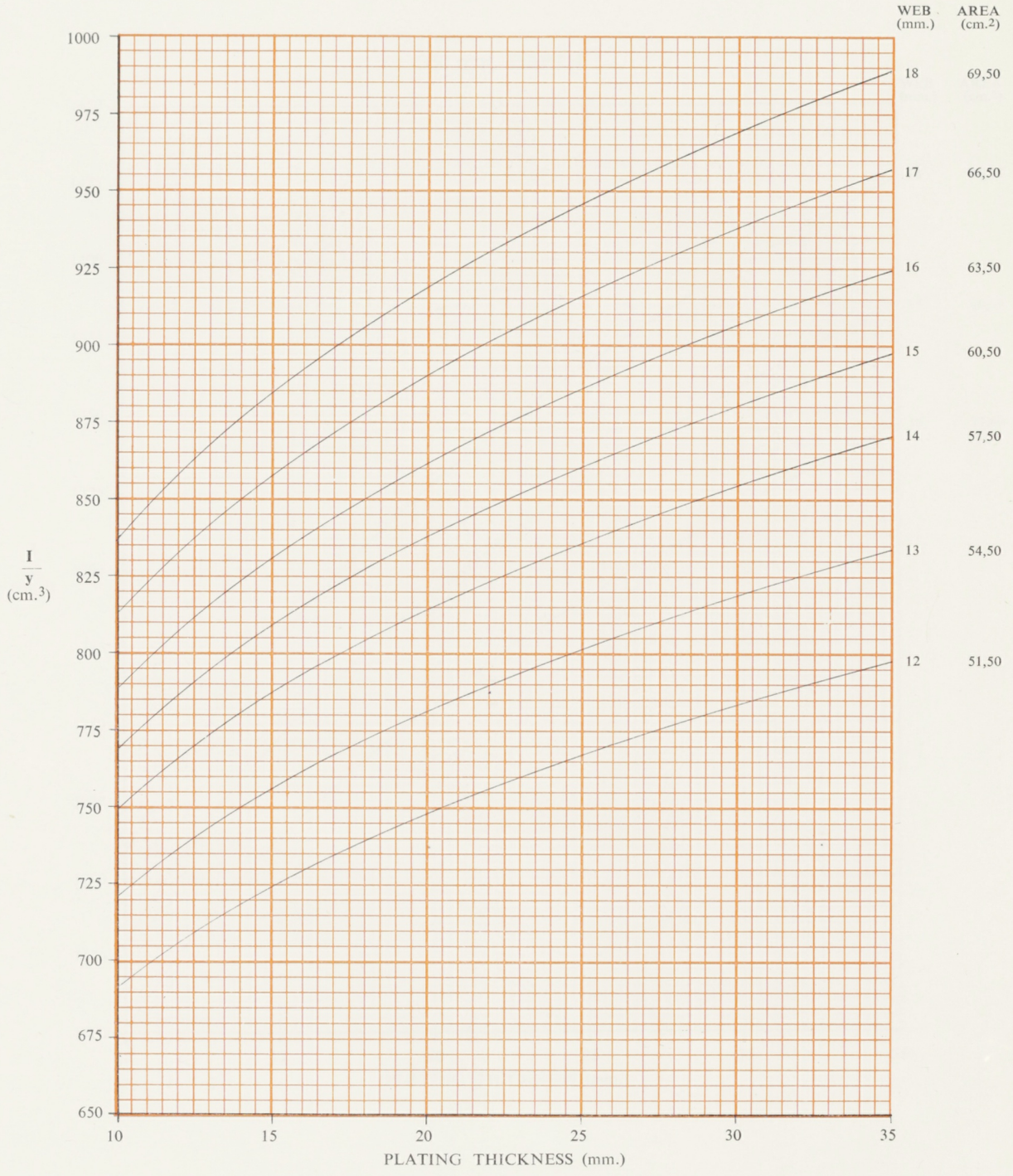


SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

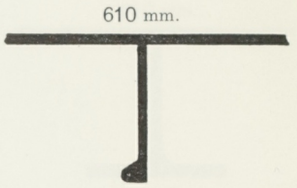


300 mm. DEPTH

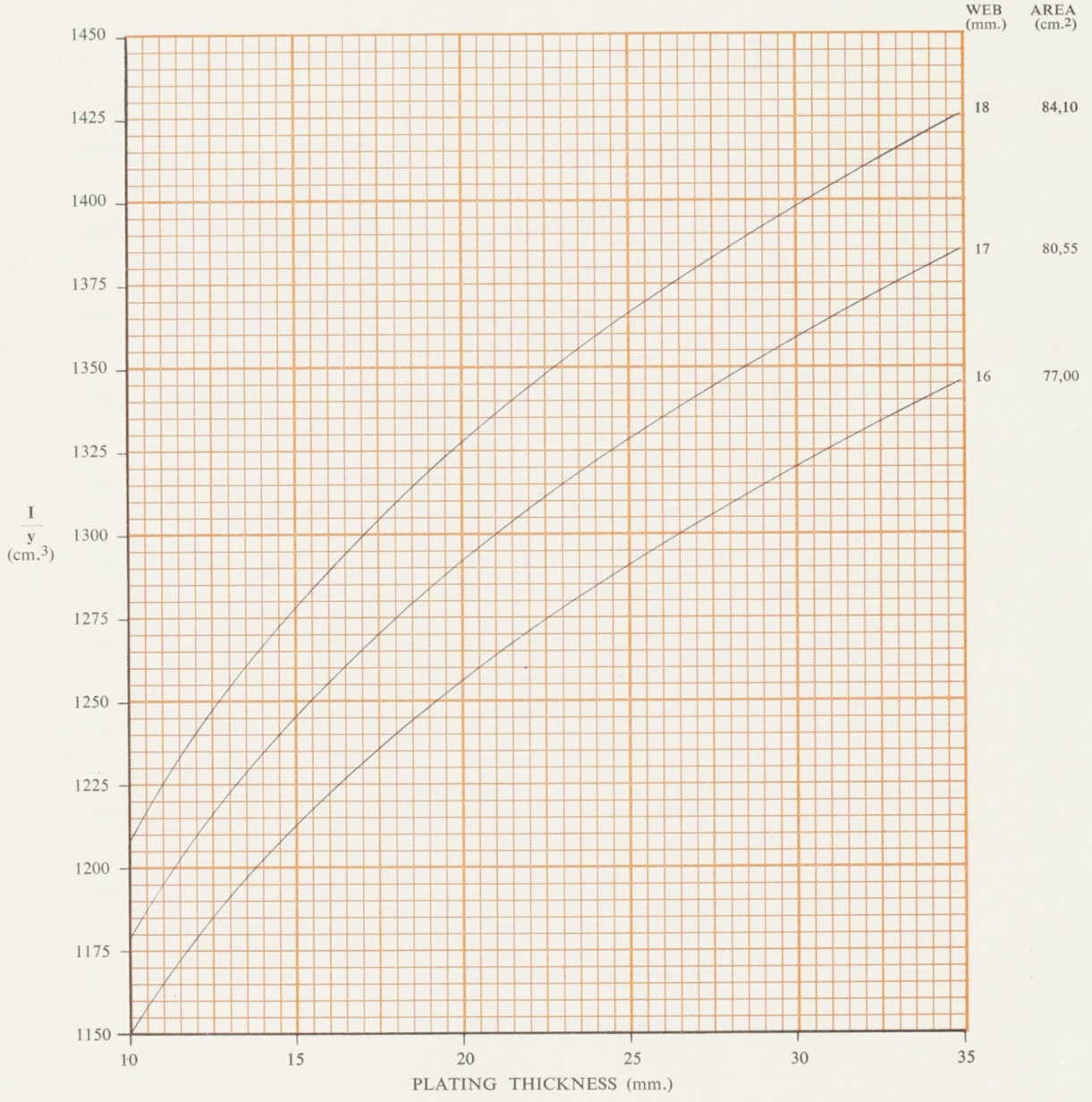


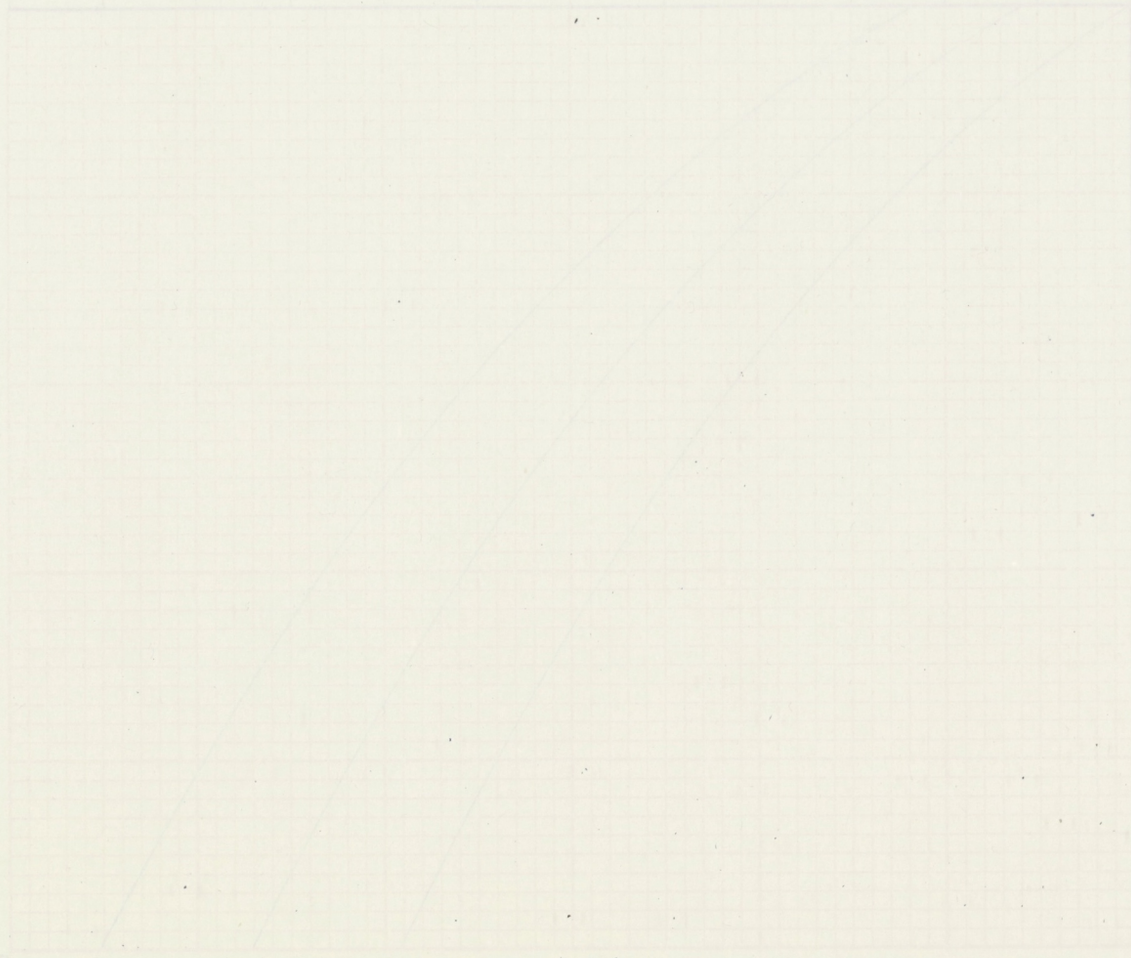
SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



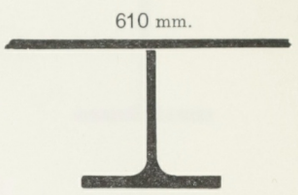
350 mm. DEPTH



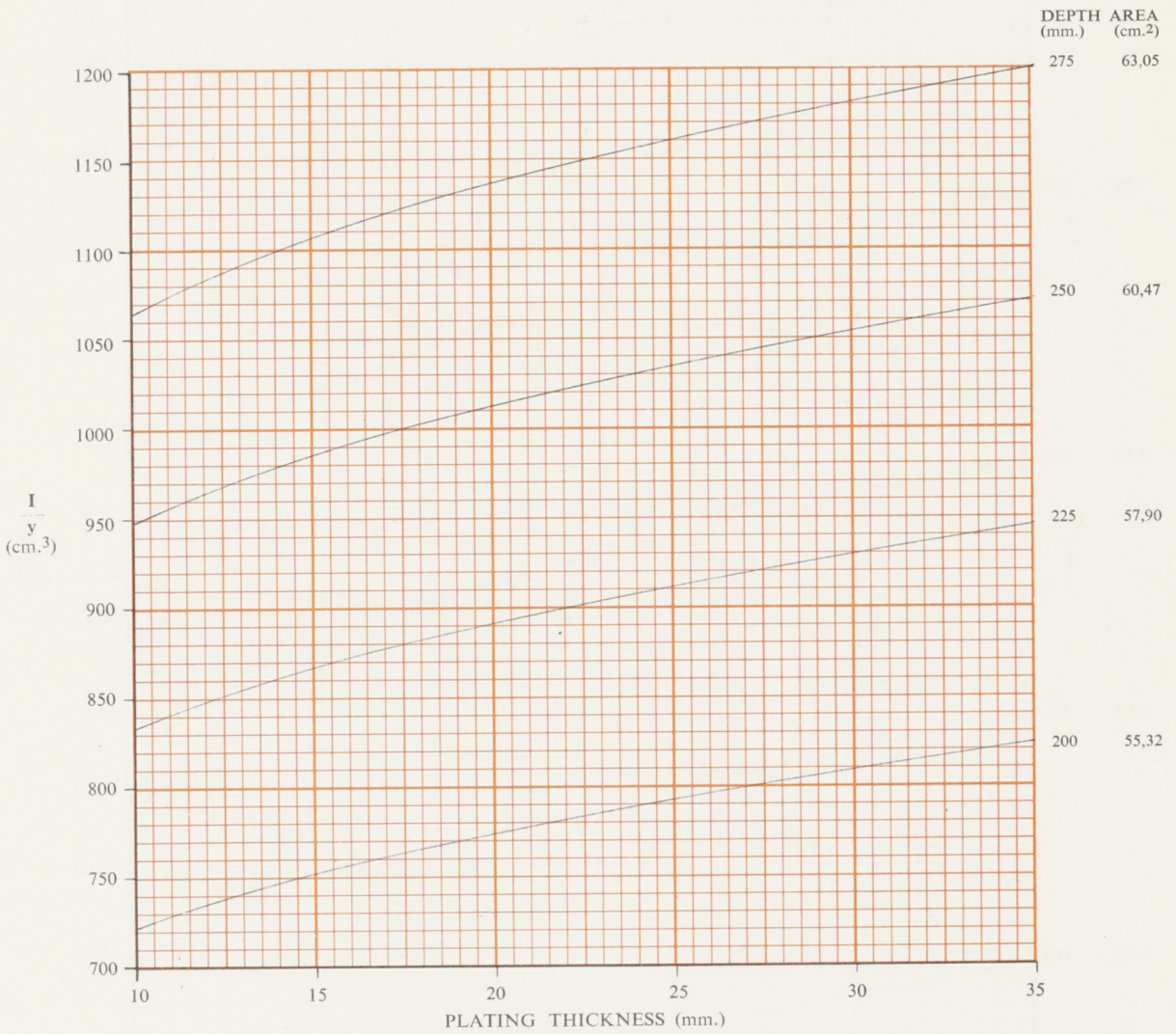


SECTION MODULUS AND AREA OF T - SECTIONS

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

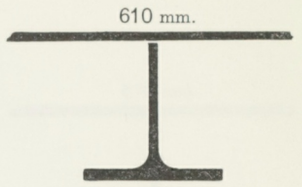


Cut from U.C.P.M.I. 400 mm. × 180 mm. × $\frac{19{,}5 \text{ mm.}}{10{,}3 \text{ mm.}}$ Joist

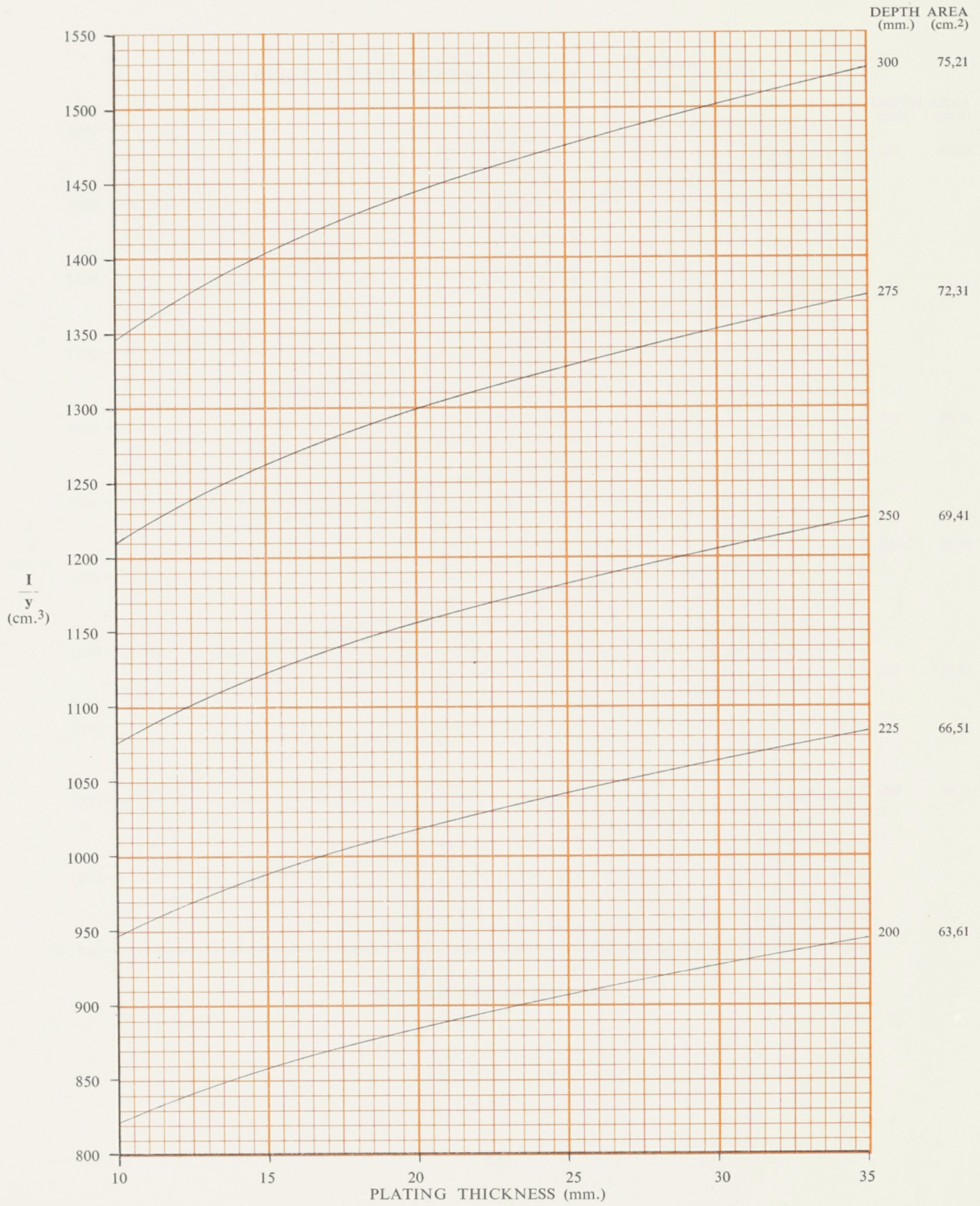


SECTION MODULUS AND AREA OF T - SECTIONS

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

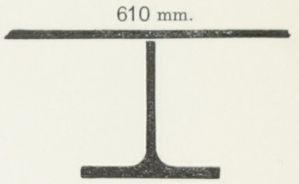


Cut from U.C.P.M.I. 450 mm. × 195 mm. × $\frac{21\text{mm.}}{11{,}6\text{ mm.}}$ Joist

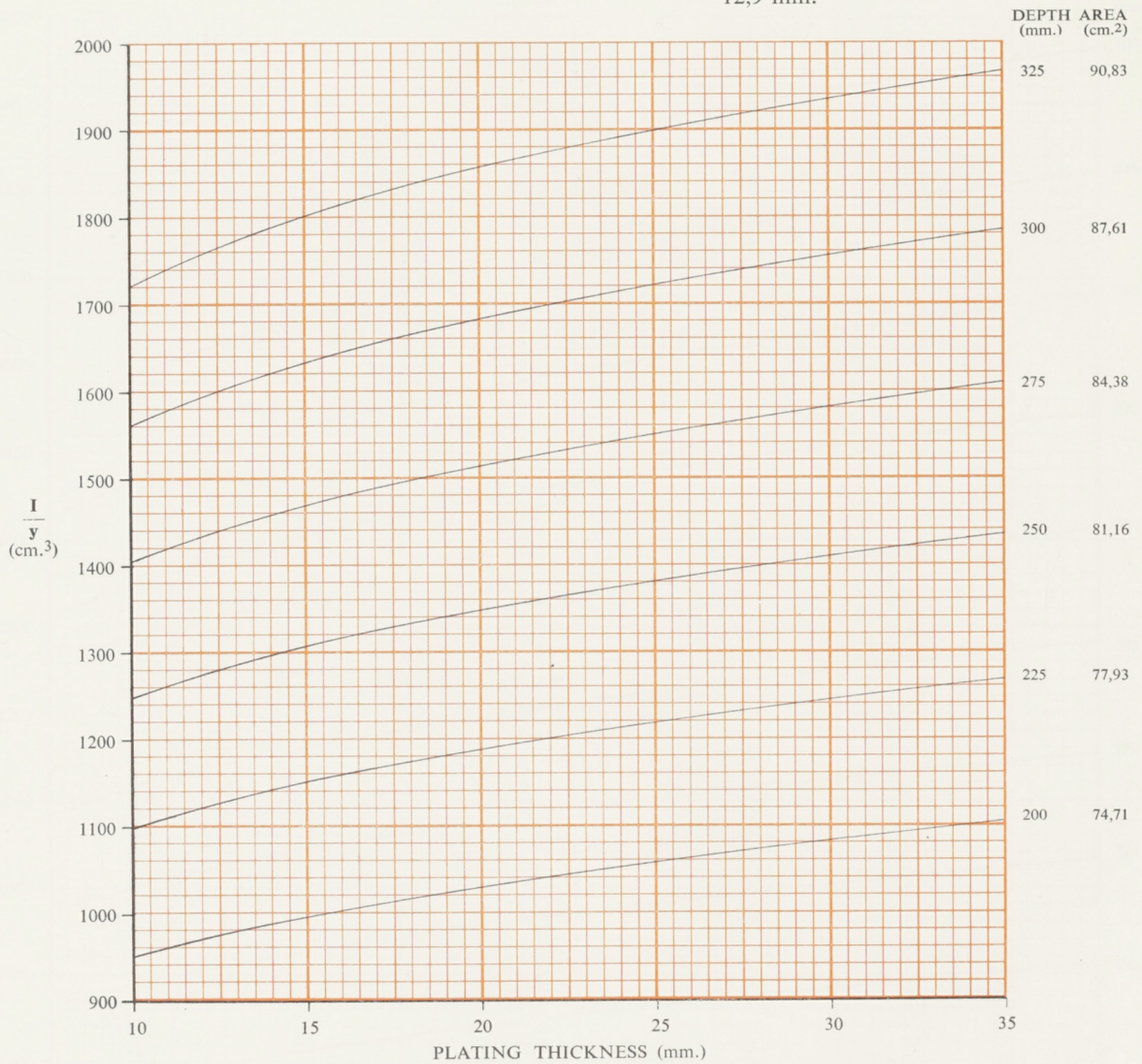


SECTION MODULUS AND AREA OF T - SECTIONS

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

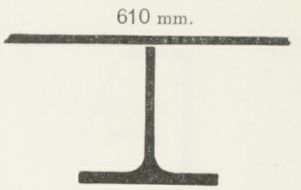


Cut from U.C.P.M.I. 500 mm. × 210 mm. × $\frac{23{,}6 \text{ mm.}}{12{,}9 \text{ mm.}}$ Joist

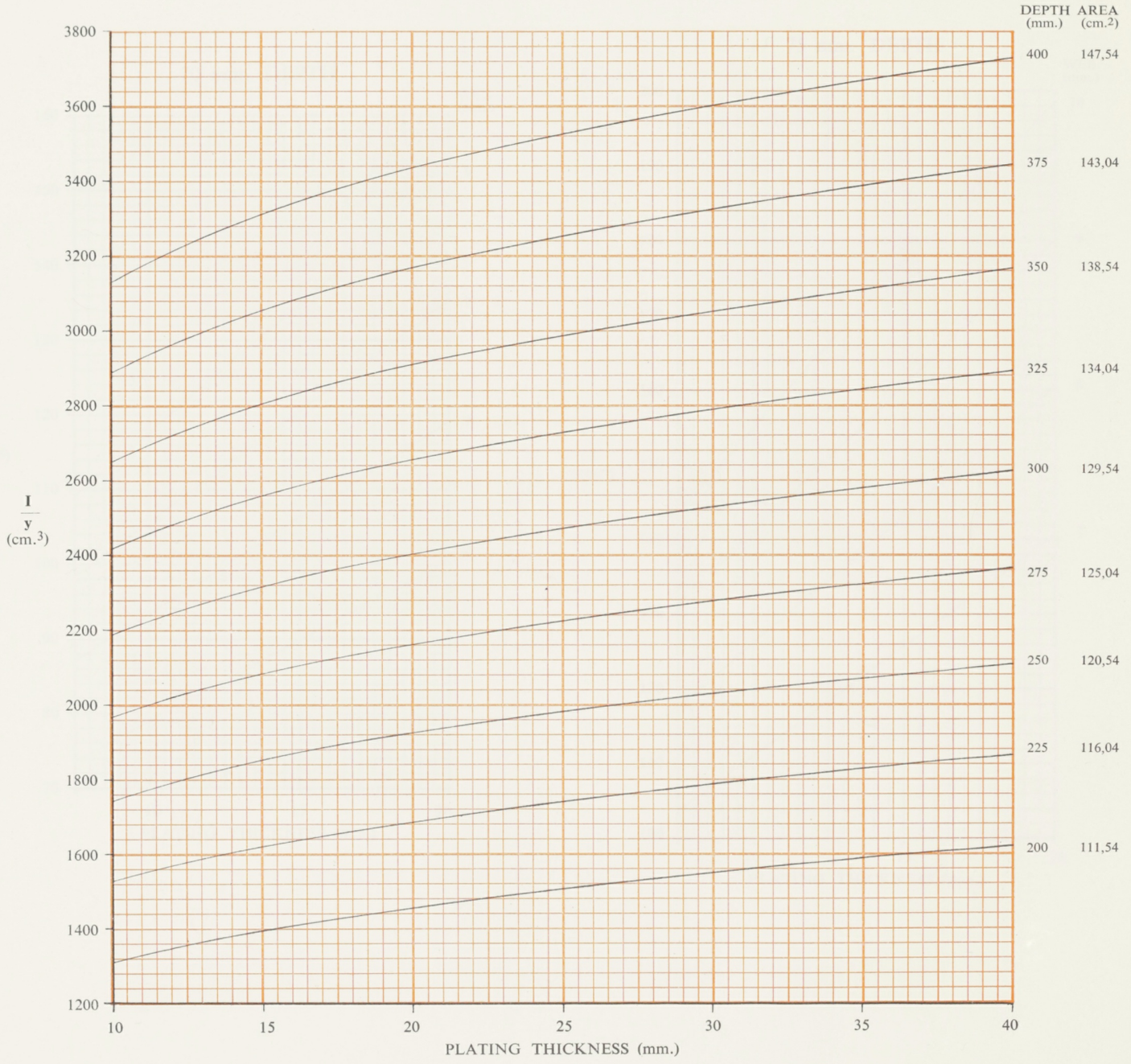


SECTION MODULUS AND AREA OF T - SECTIONS

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

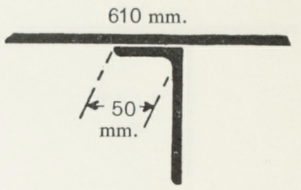


Cut from U.C.P.M.I. 600 mm. × 245 mm. × $\frac{32 \text{ mm.}}{18 \text{ mm.}}$ Joist



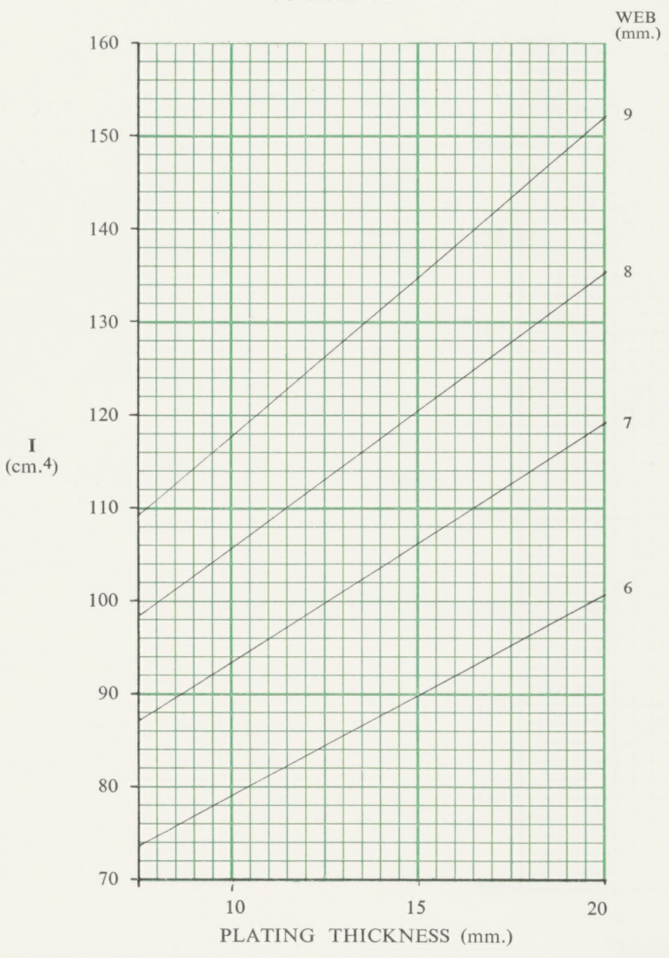
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)

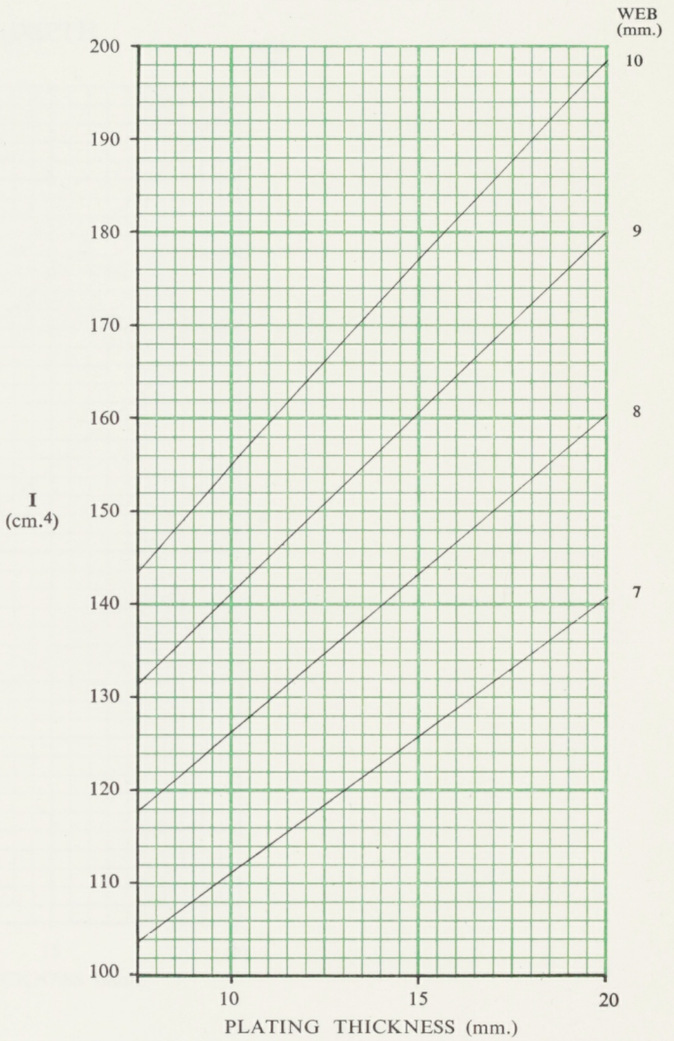


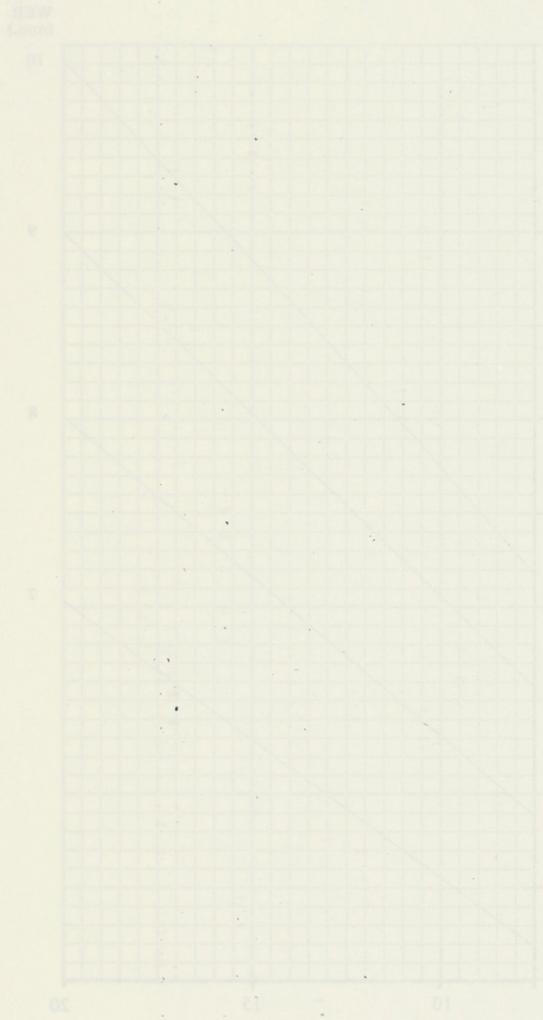
50 mm. FLANGE

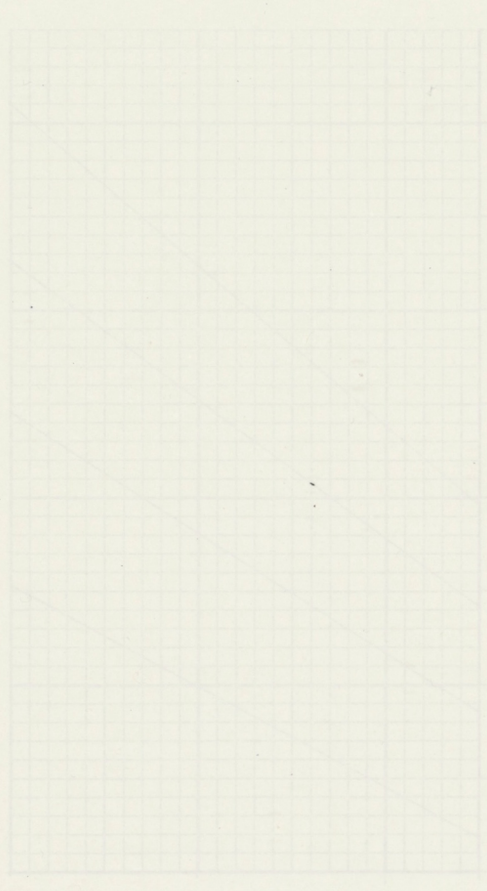
70 mm. DEPTH



75 mm. DEPTH

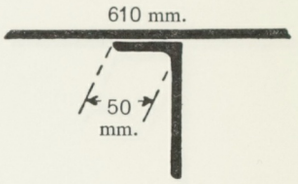






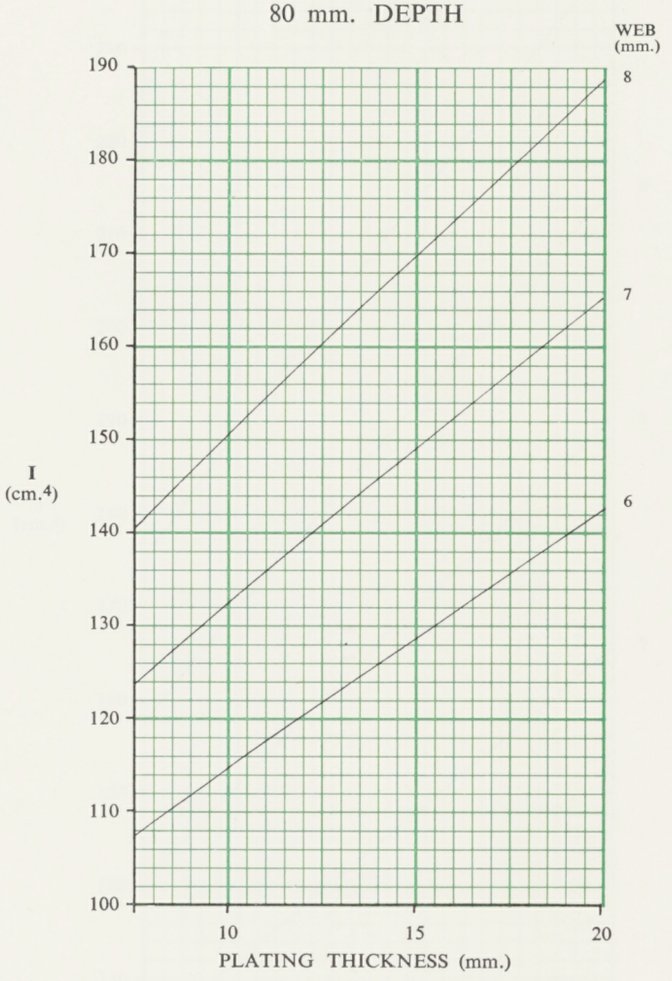
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)



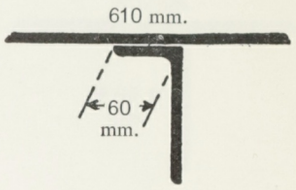
50 mm. FLANGE

80 mm. DEPTH

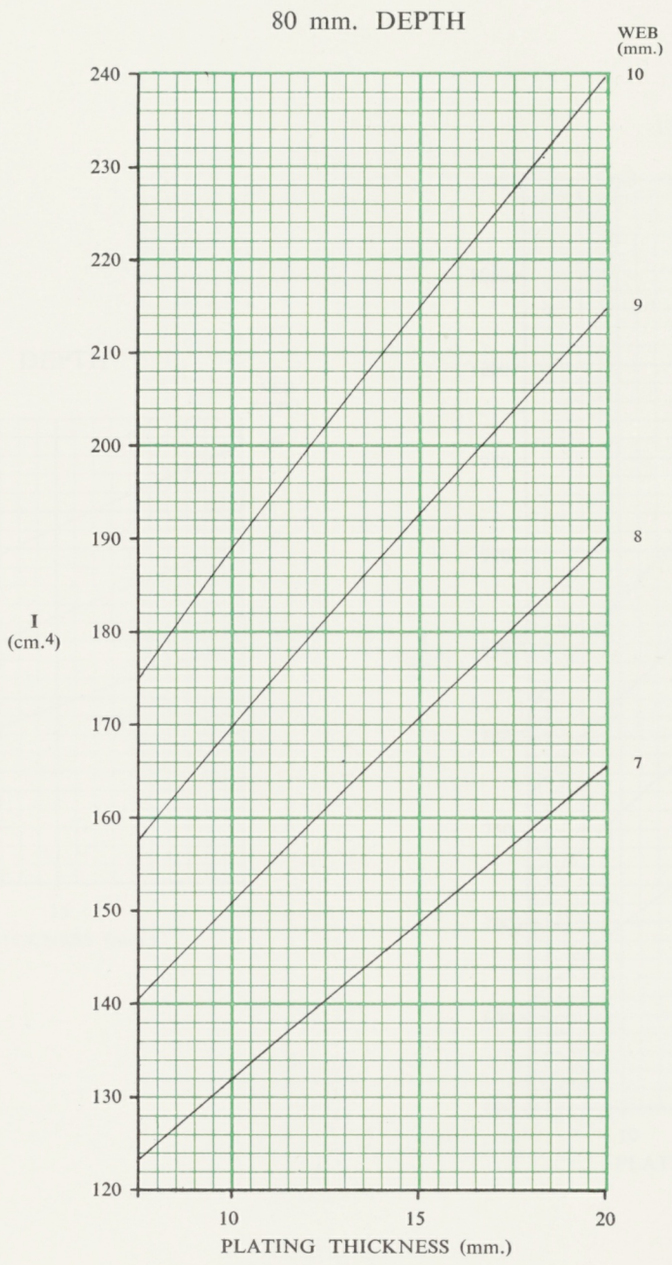


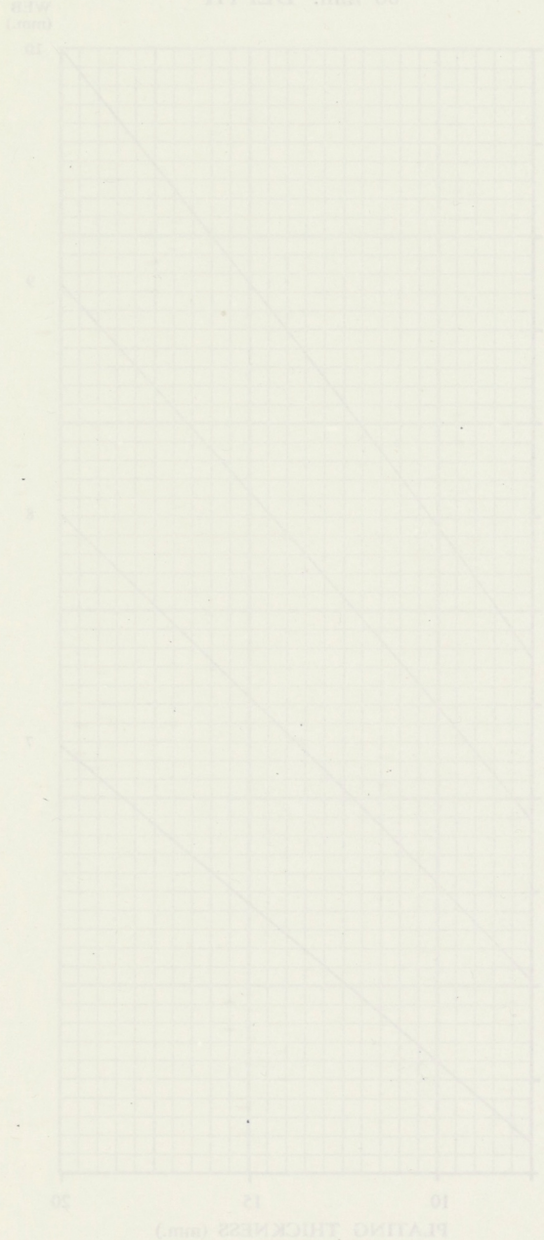
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)



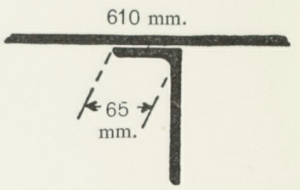
60 mm. FLANGE





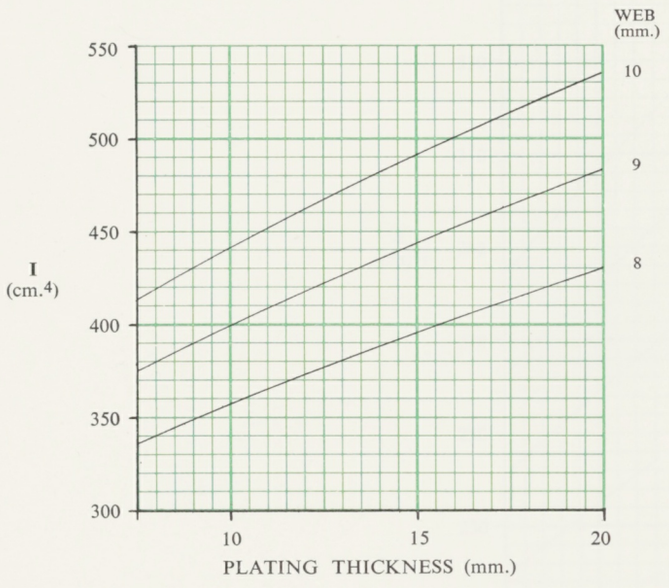
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)

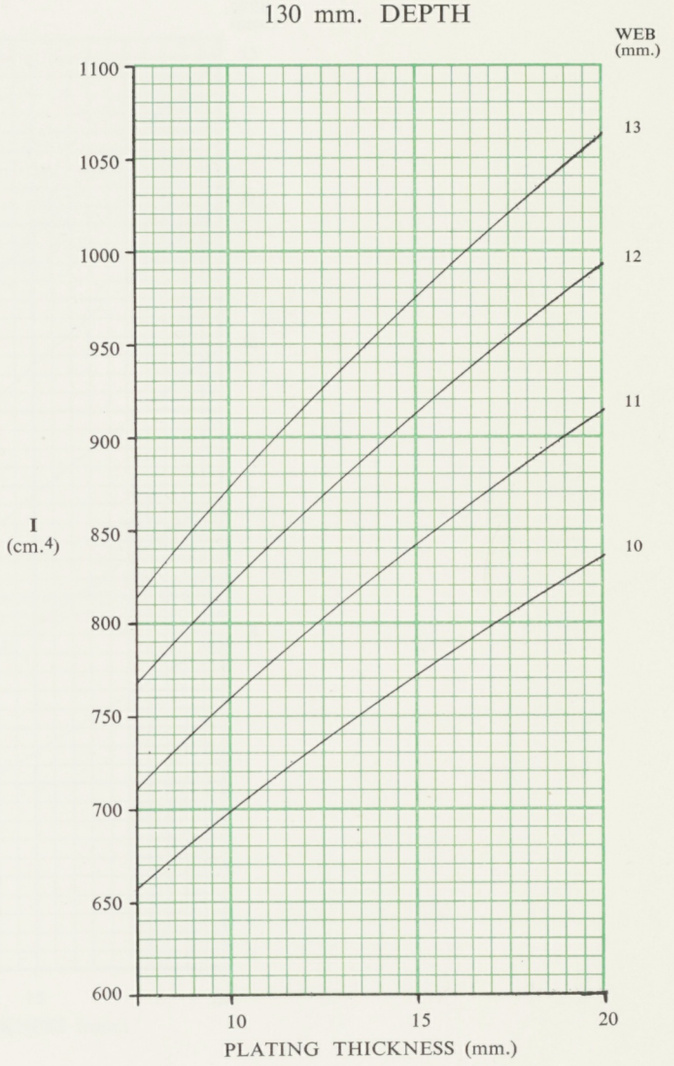


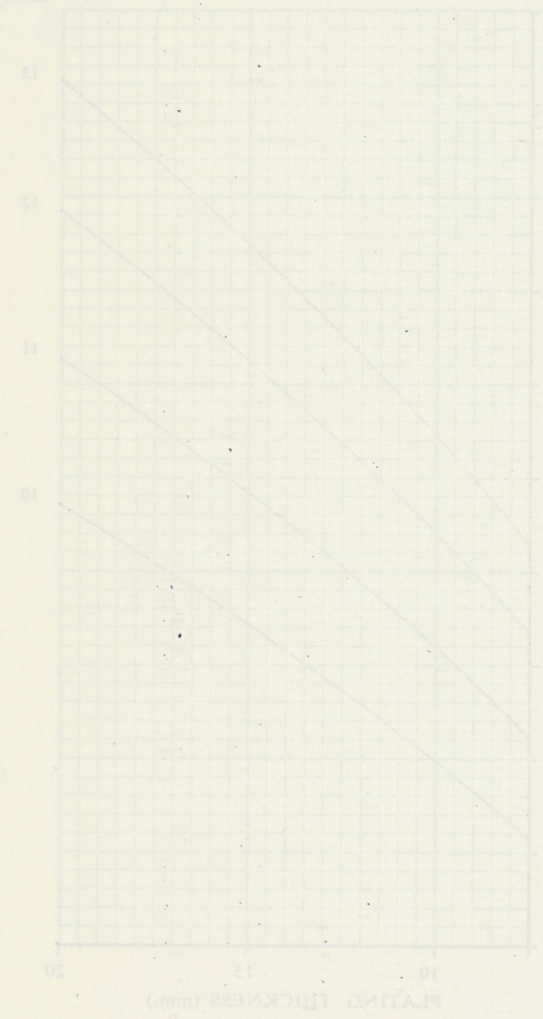
65 mm. FLANGE

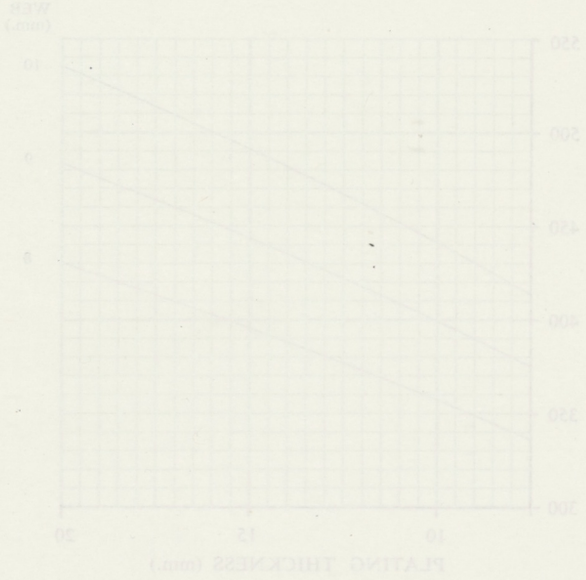
110 mm. DEPTH



130 mm. DEPTH

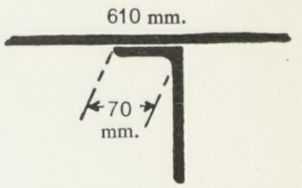






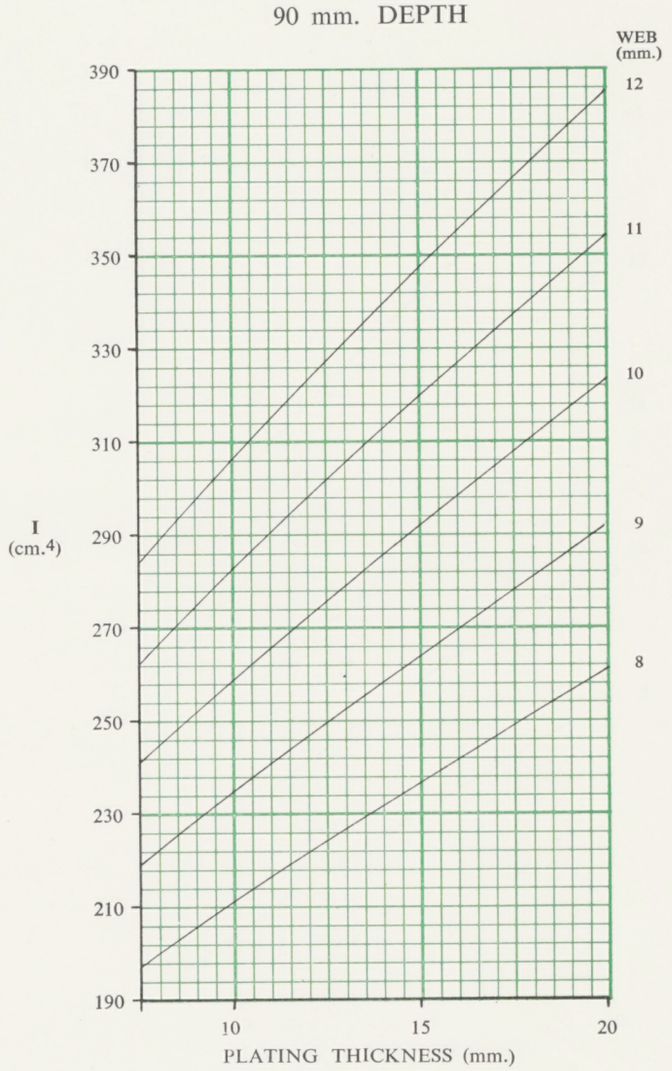
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)



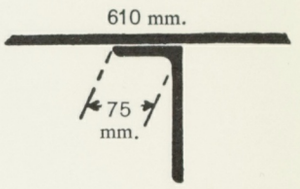
70 mm. FLANGE

90 mm. DEPTH



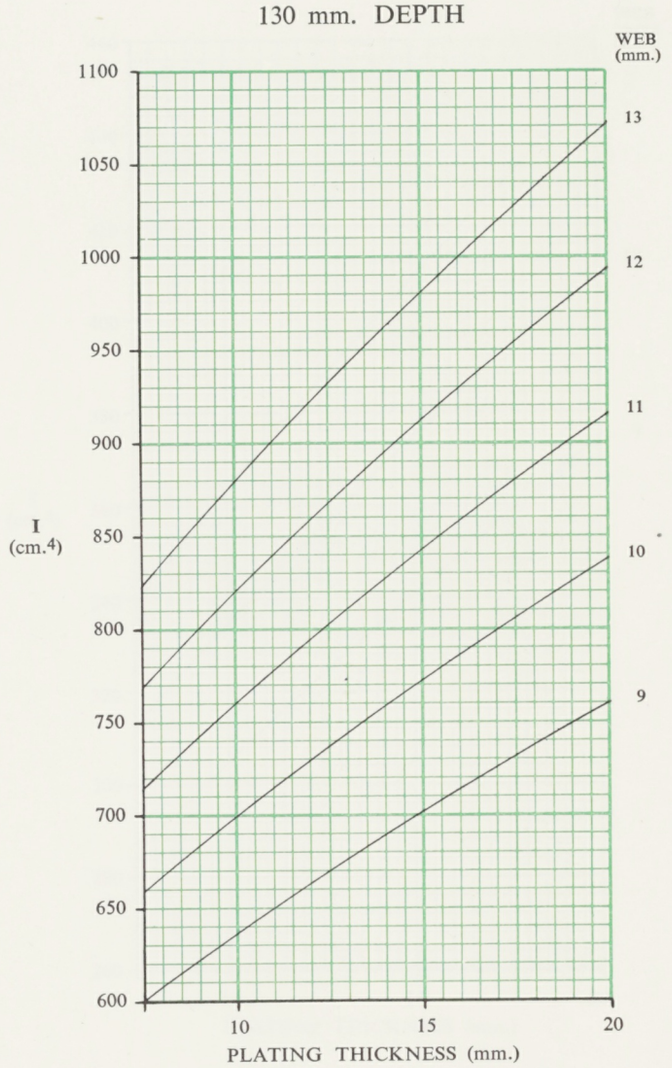
MOMENT OF INERTIA OF ORDINARY ANGLES

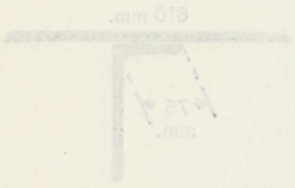
(WITH PLATING)

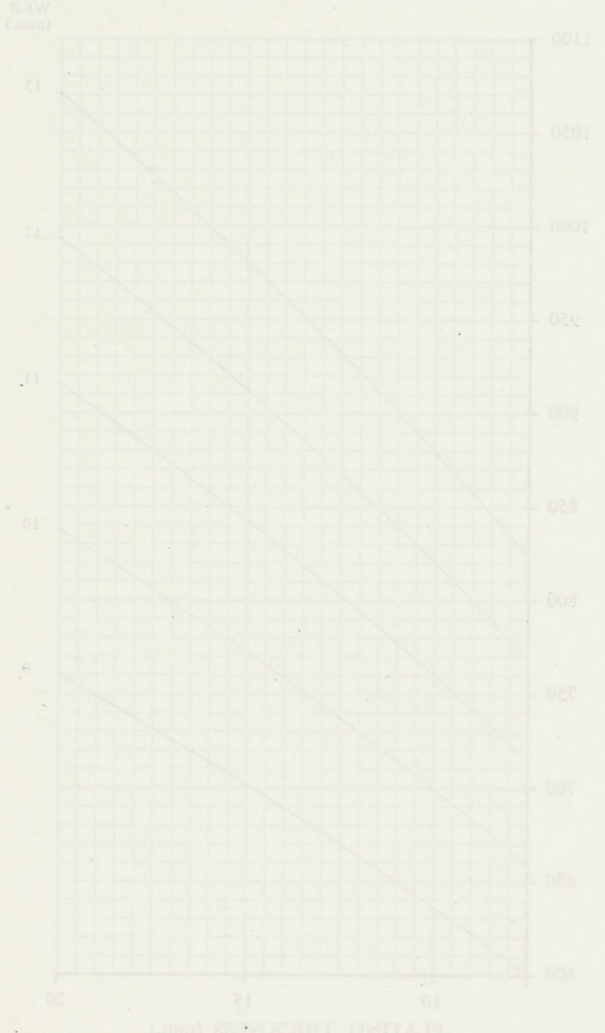


75 mm. FLANGE

130 mm. DEPTH

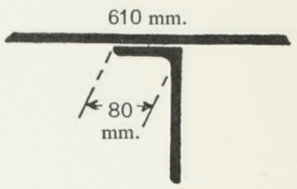



610 mm.
75 mm.


WEB (mm.)
17
12
10
1100
1050
1000
950
900
850
800
750
700
650
600
I (cm.⁴)
10
15
20
PLATING THICKNESS (mm.)

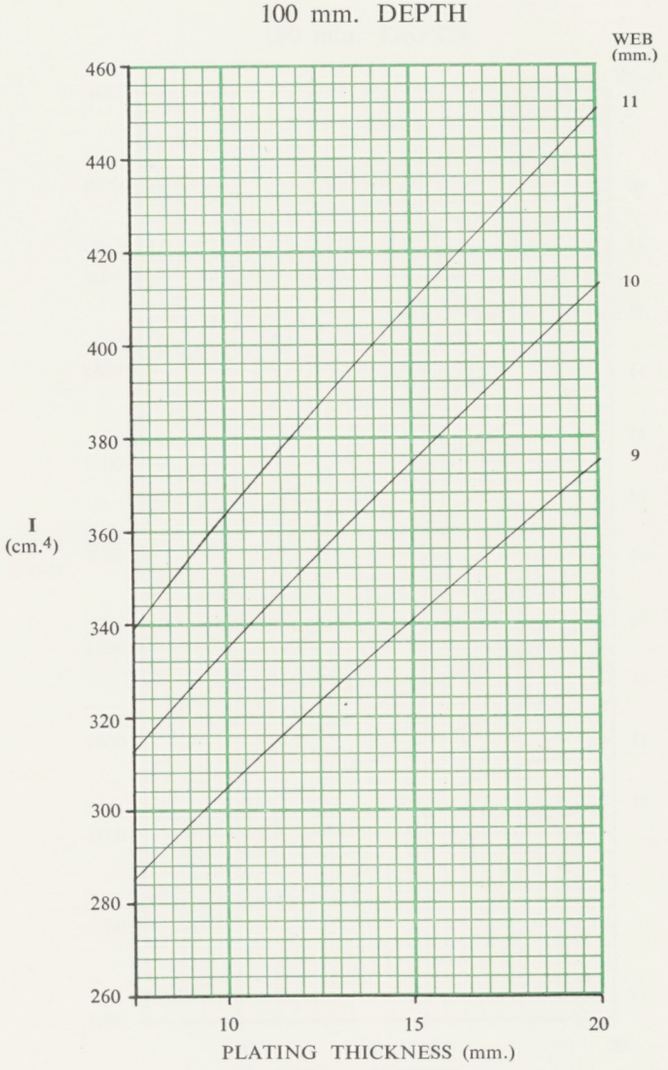
MOMENT OF INERTIA OF ORDINARY ANGLES

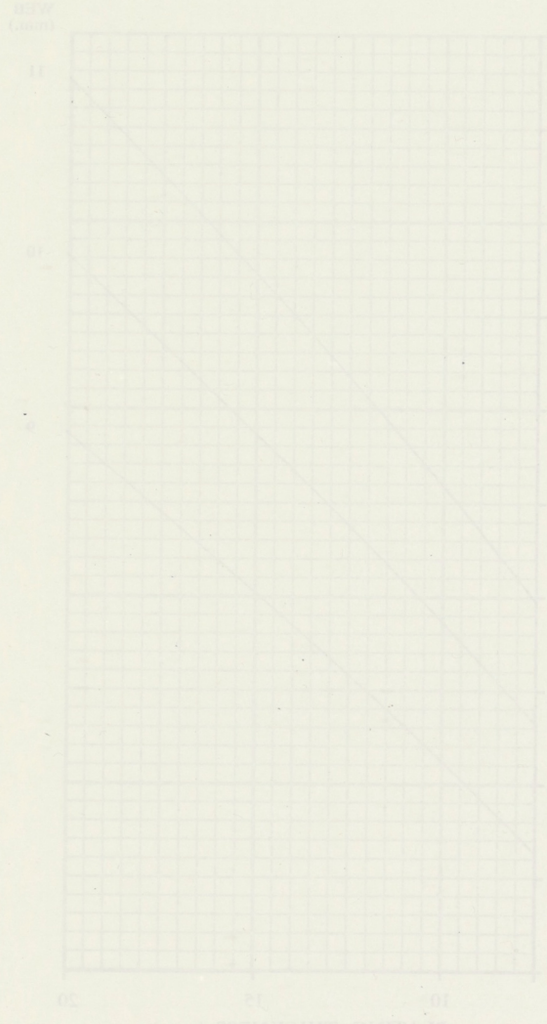
(WITH PLATING)



80 mm. FLANGE

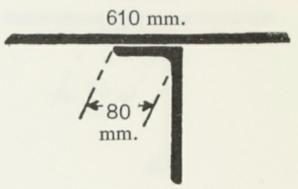
100 mm. DEPTH





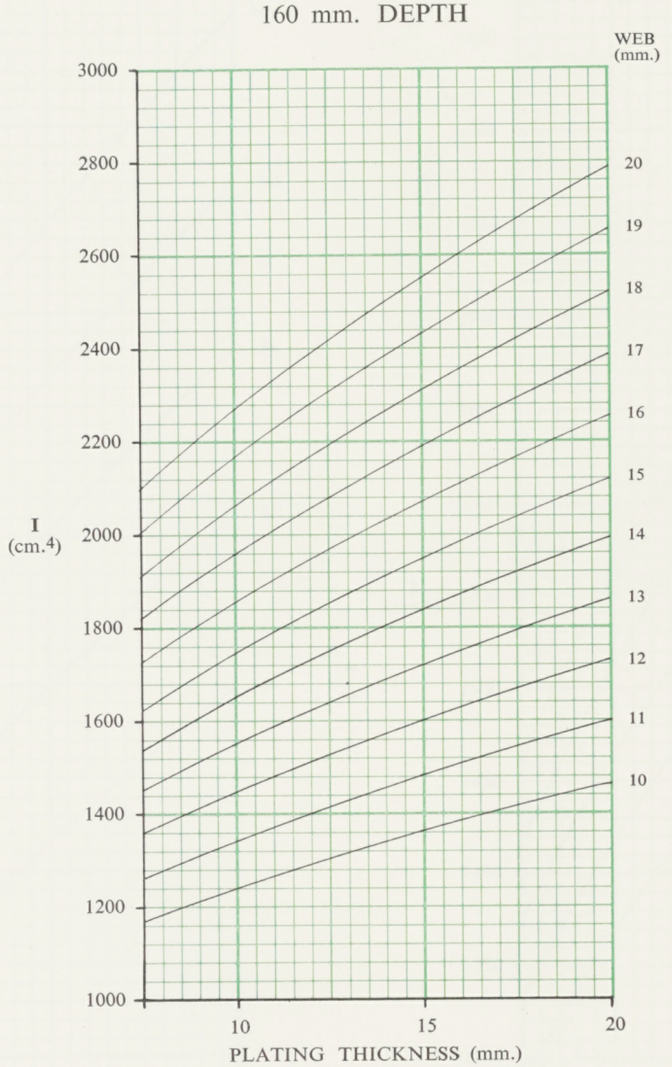
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)



80 mm. FLANGE

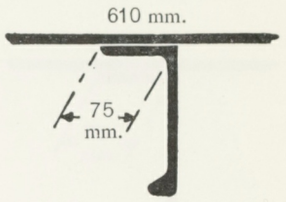
160 mm. DEPTH



610 mm.
80 mm.

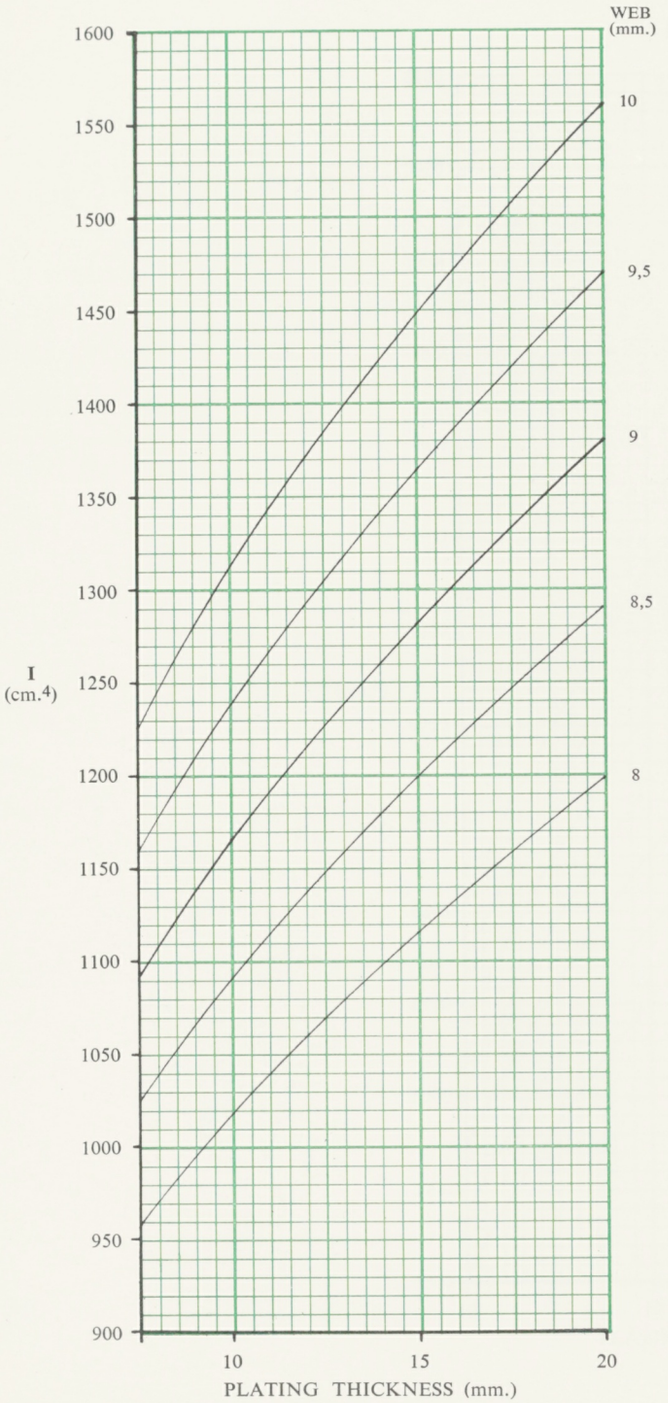
MOMENT OF INERTIA OF BULB ANGLES

(WITH PLATING)

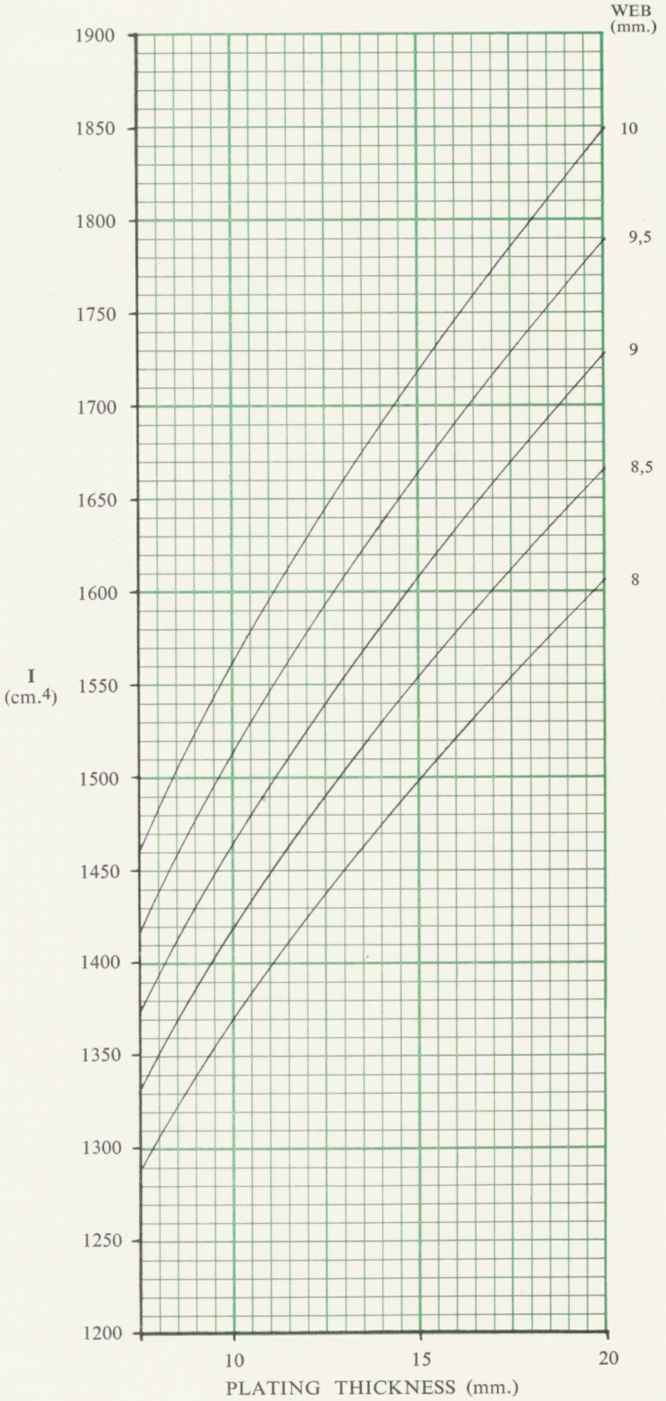


75 mm. FLANGE

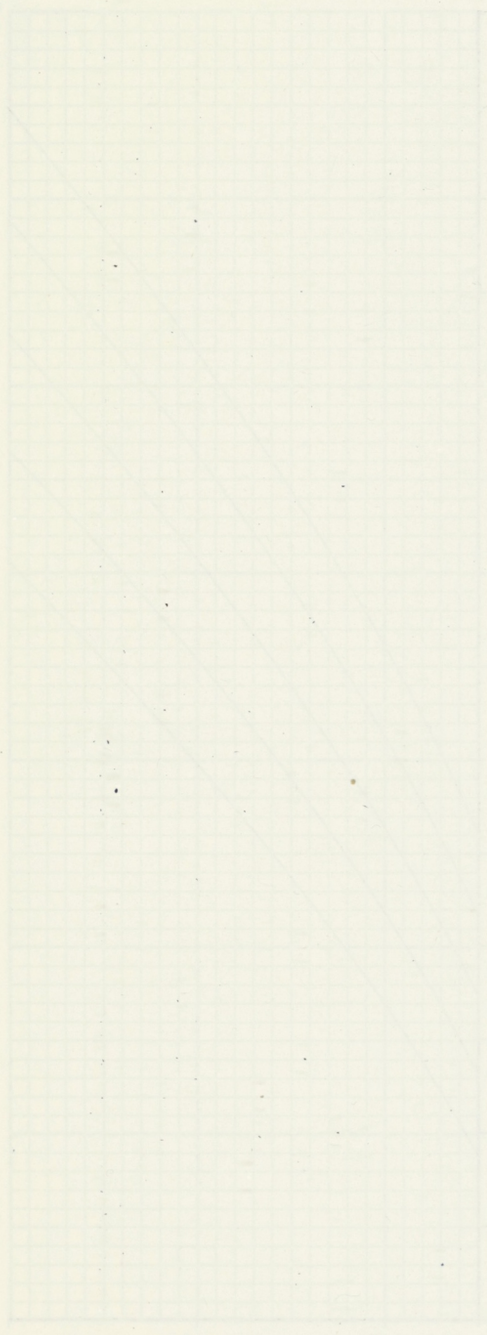
140 mm. DEPTH

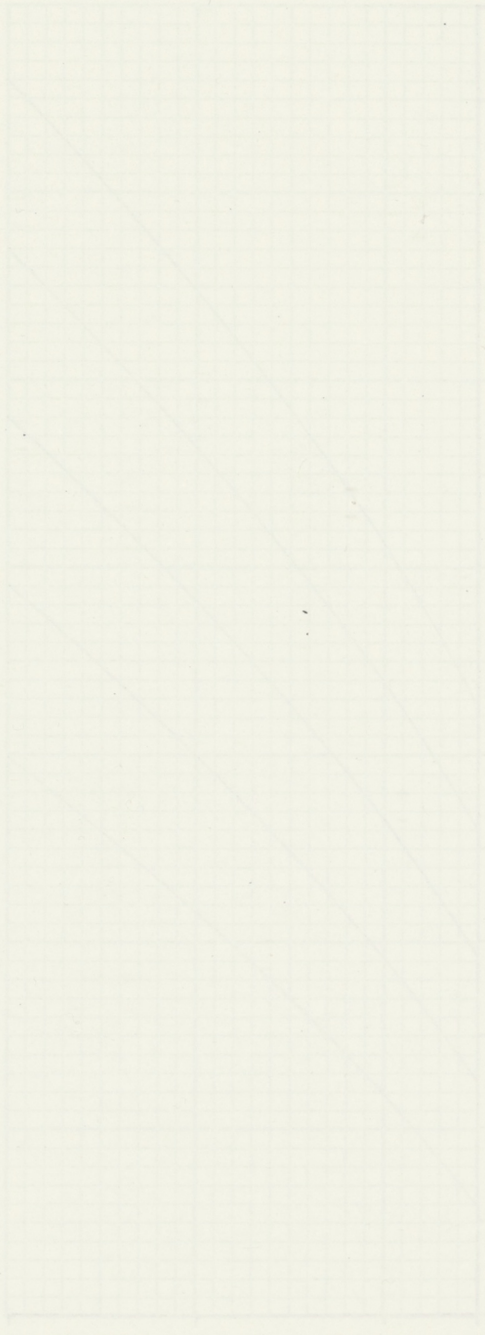


150 mm. DEPTH



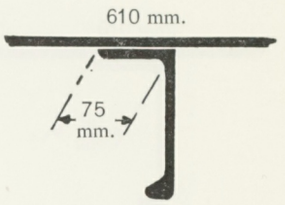
MM





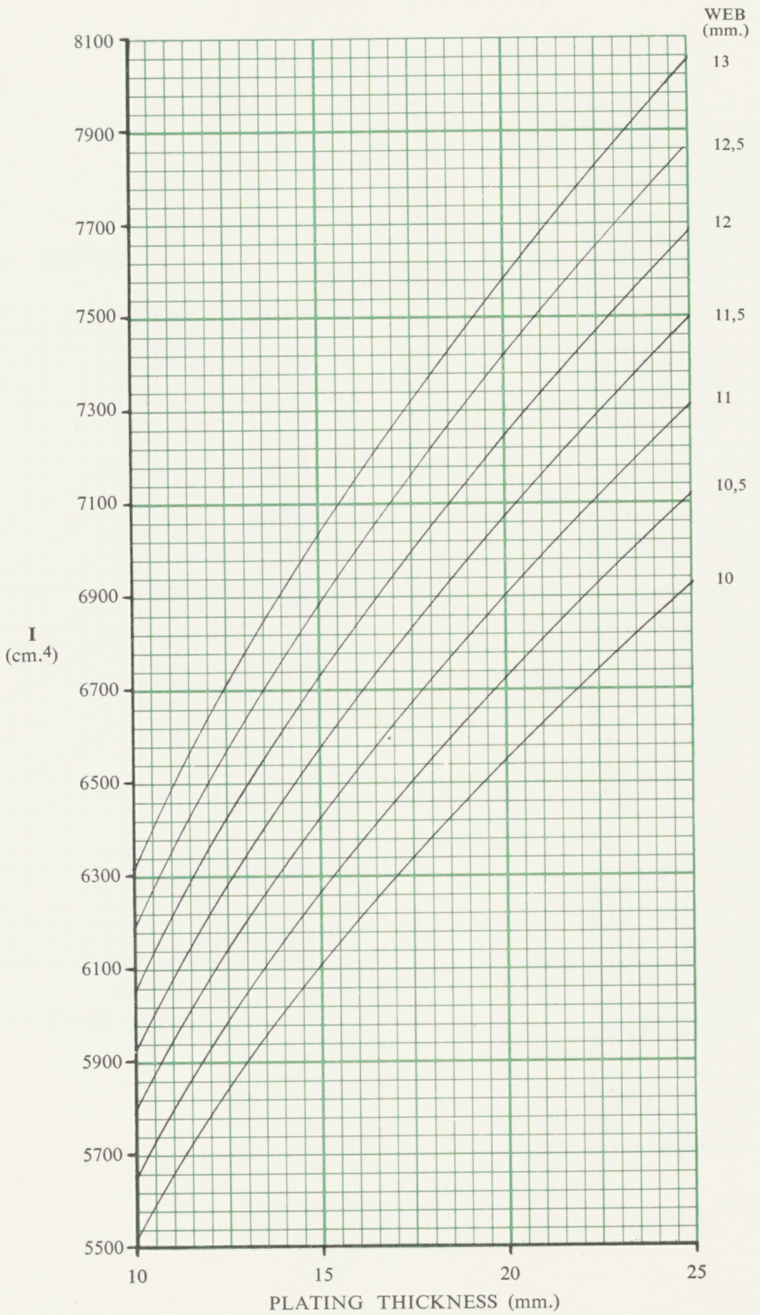
MOMENT OF INERTIA OF BULB ANGLES

(WITH PLATING)



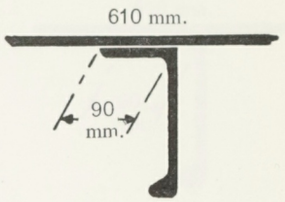
75 mm. FLANGE

230 mm. DEPTH



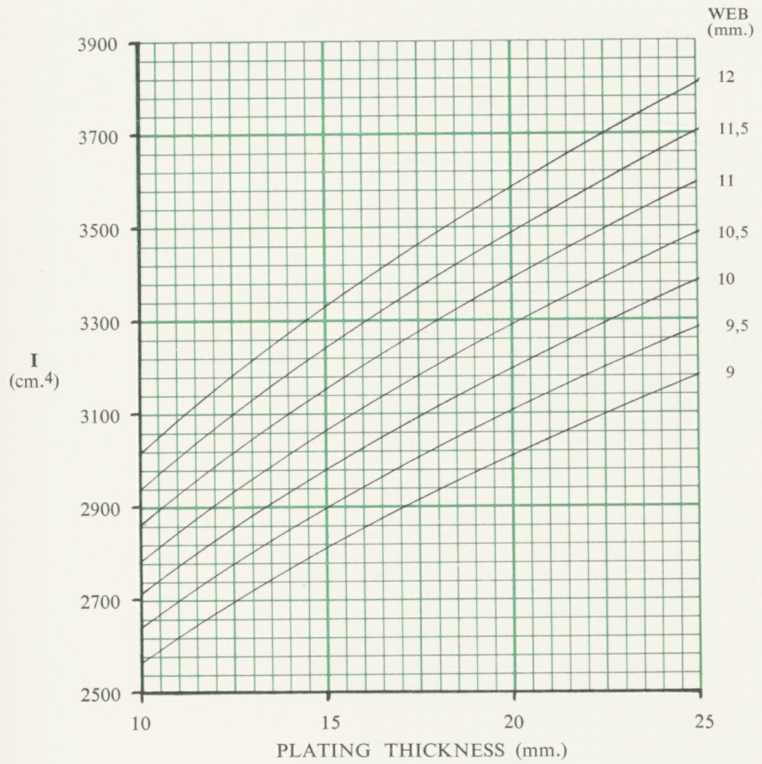
MOMENT OF INERTIA OF BULB ANGLES

(WITH PLATING)

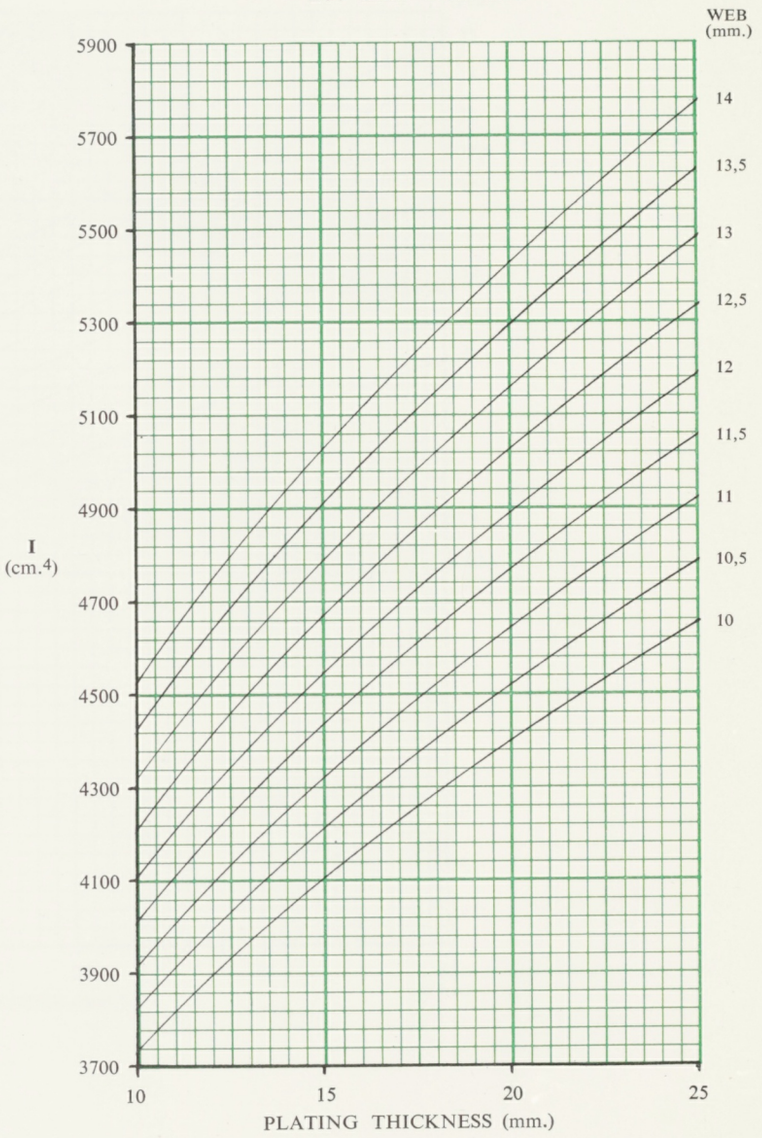


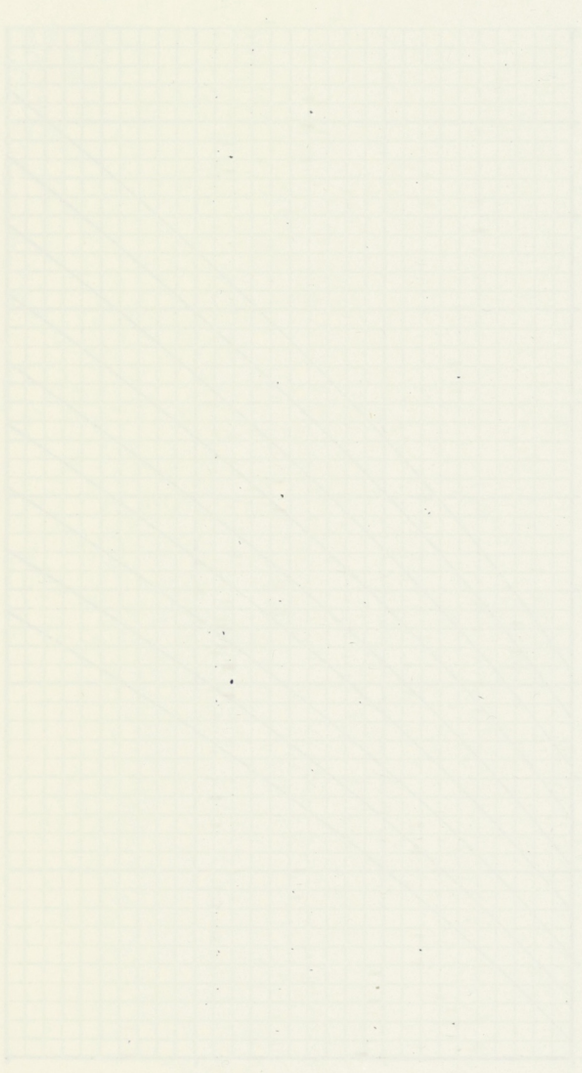
90 mm. FLANGE

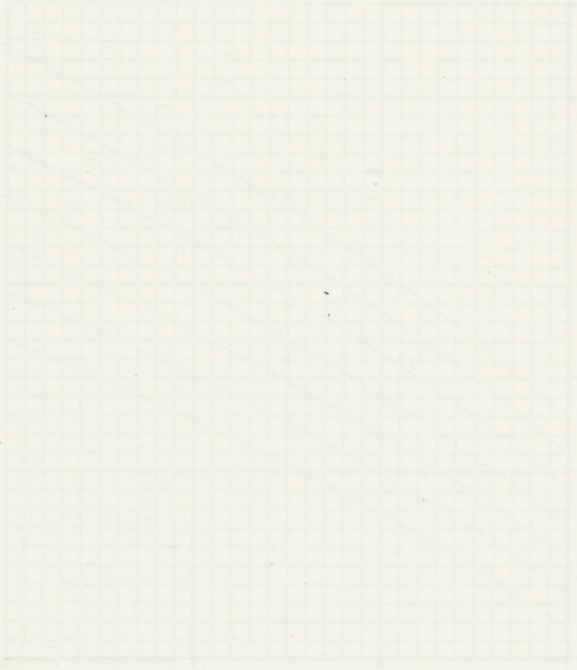
180 mm. DEPTH



200 mm. DEPTH

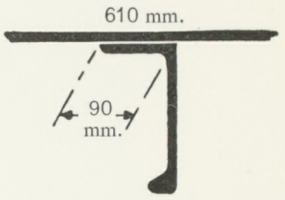






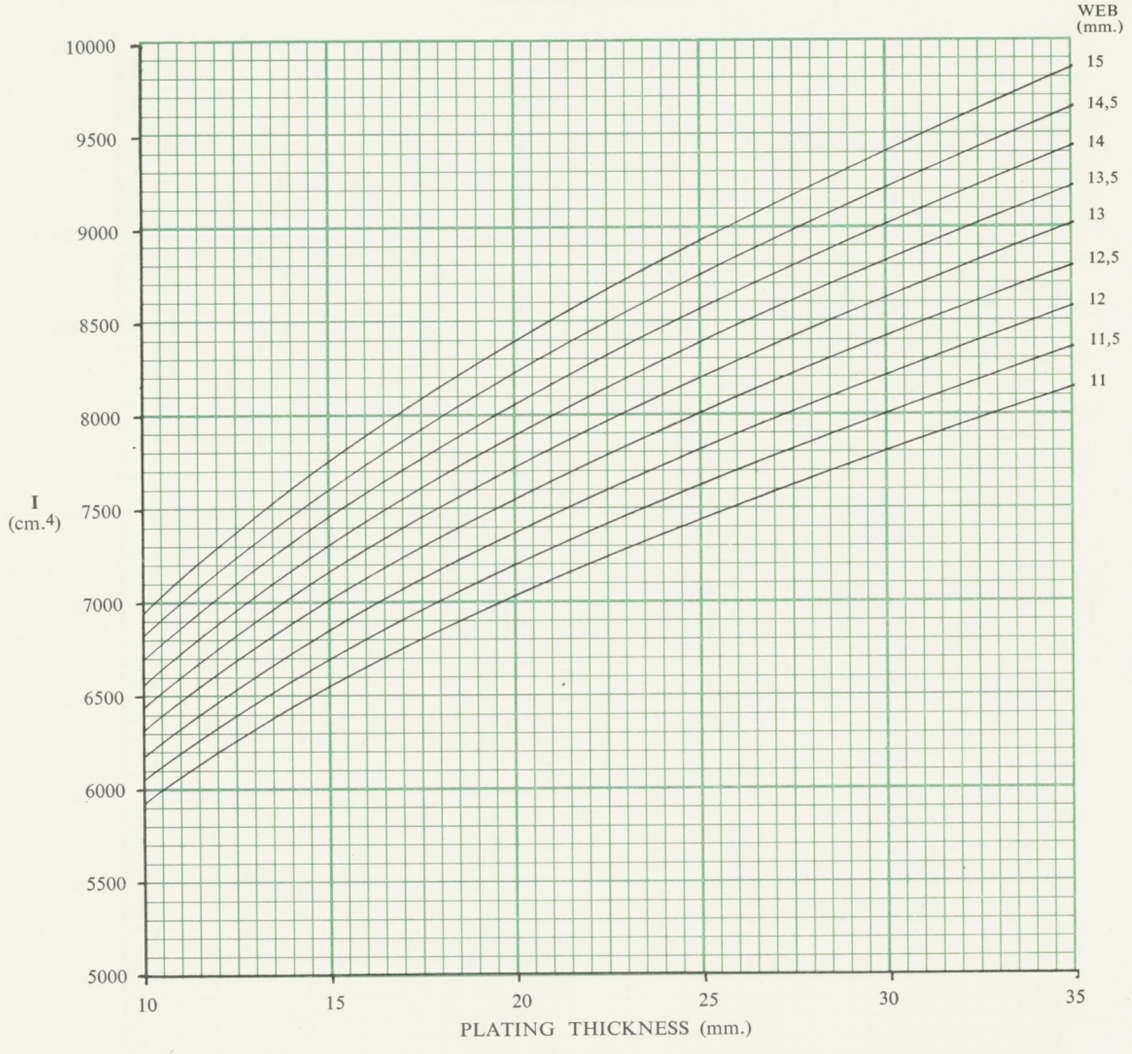
MOMENT OF INERTIA OF BULB ANGLES

(WITH PLATING)



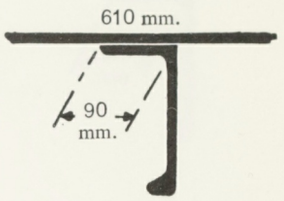
90 mm. FLANGE

230 mm. DEPTH

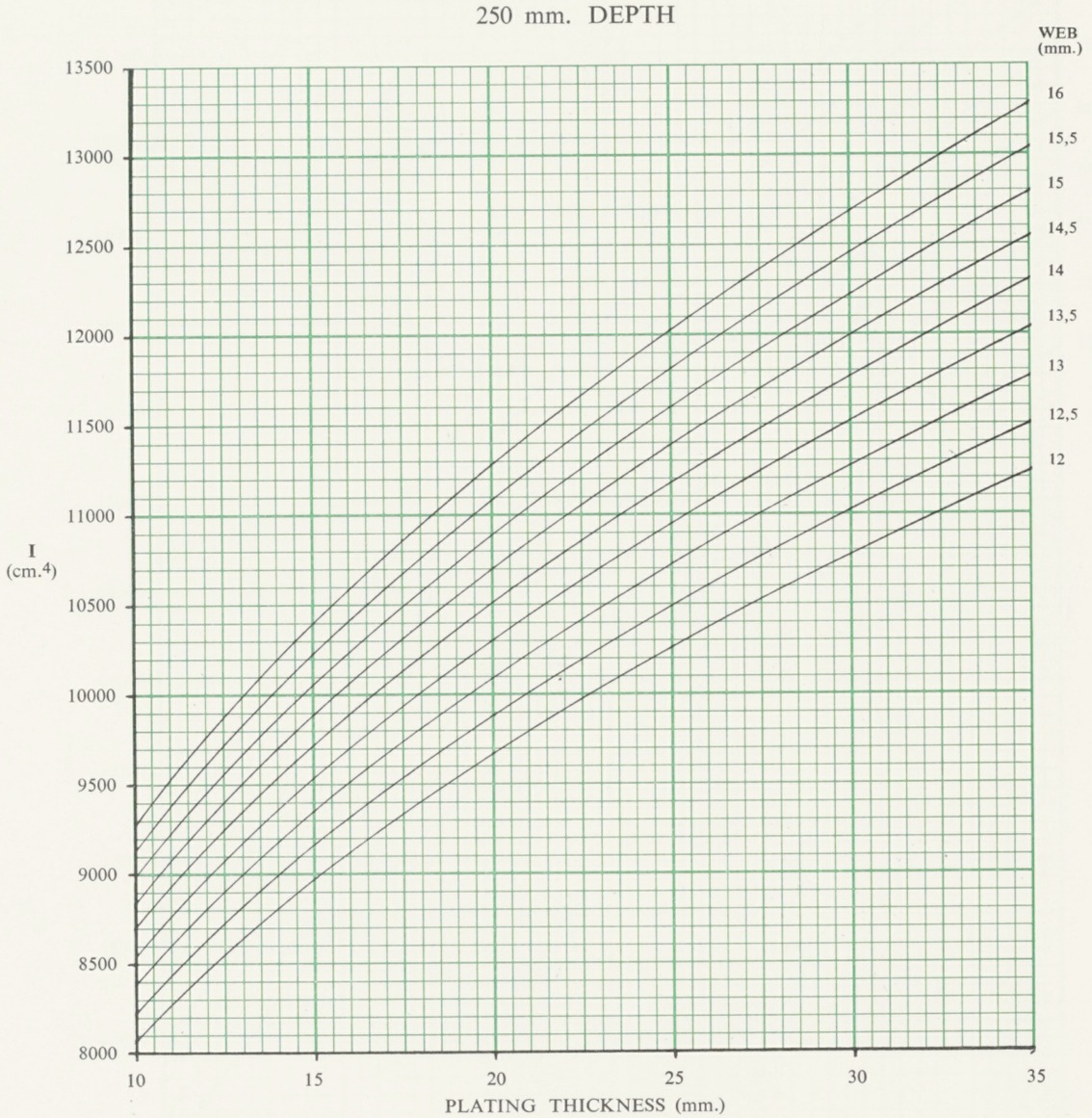


MOMENT OF INERTIA OF BULB ANGLES

WITH PLATING)



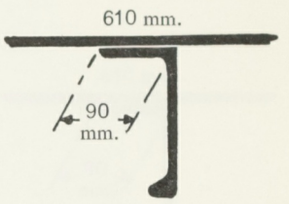
90 mm. FLANGE



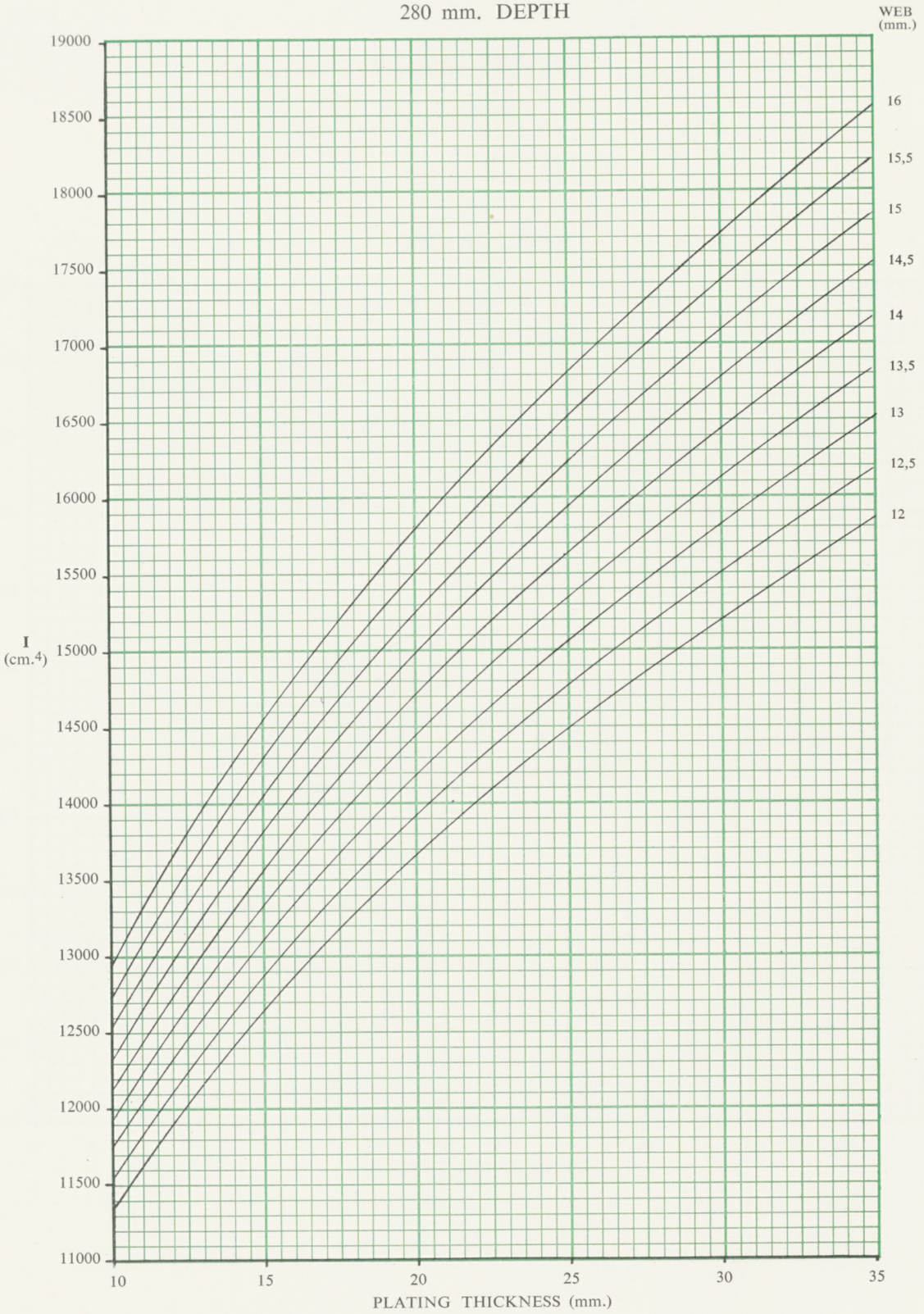
MOMENT OF INERTIA OF BULB ANGLES

(WITH PLATING)

90 mm. FLANGE

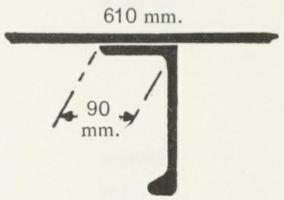


280 mm. DEPTH



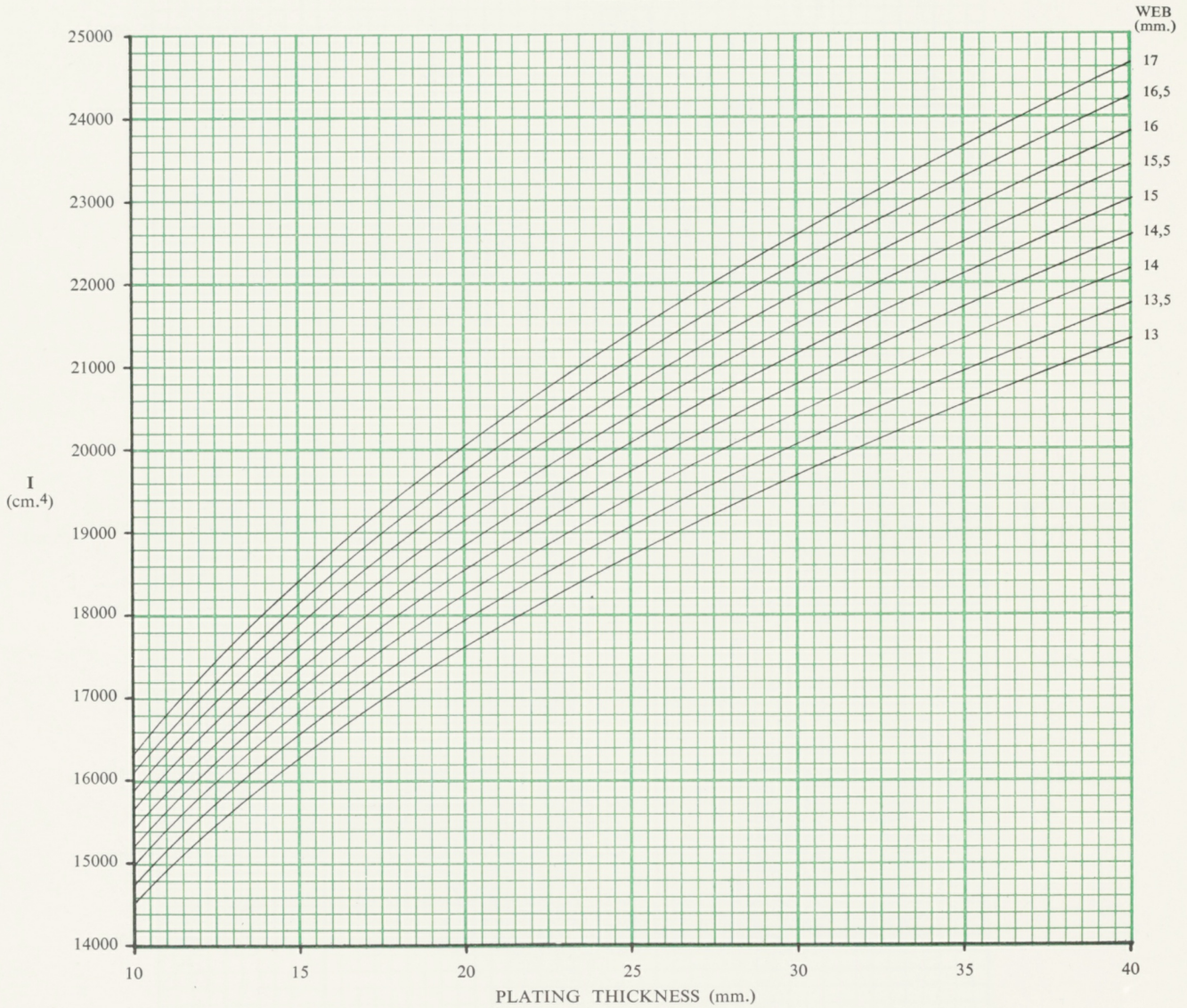
MOMENT OF INERTIA OF BULB ANGLES

(WITH PLATING)



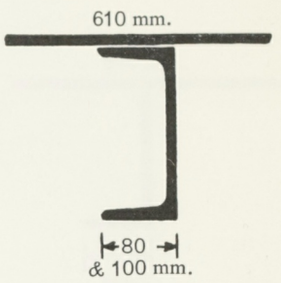
90 mm. FLANGE

300 mm. DEPTH

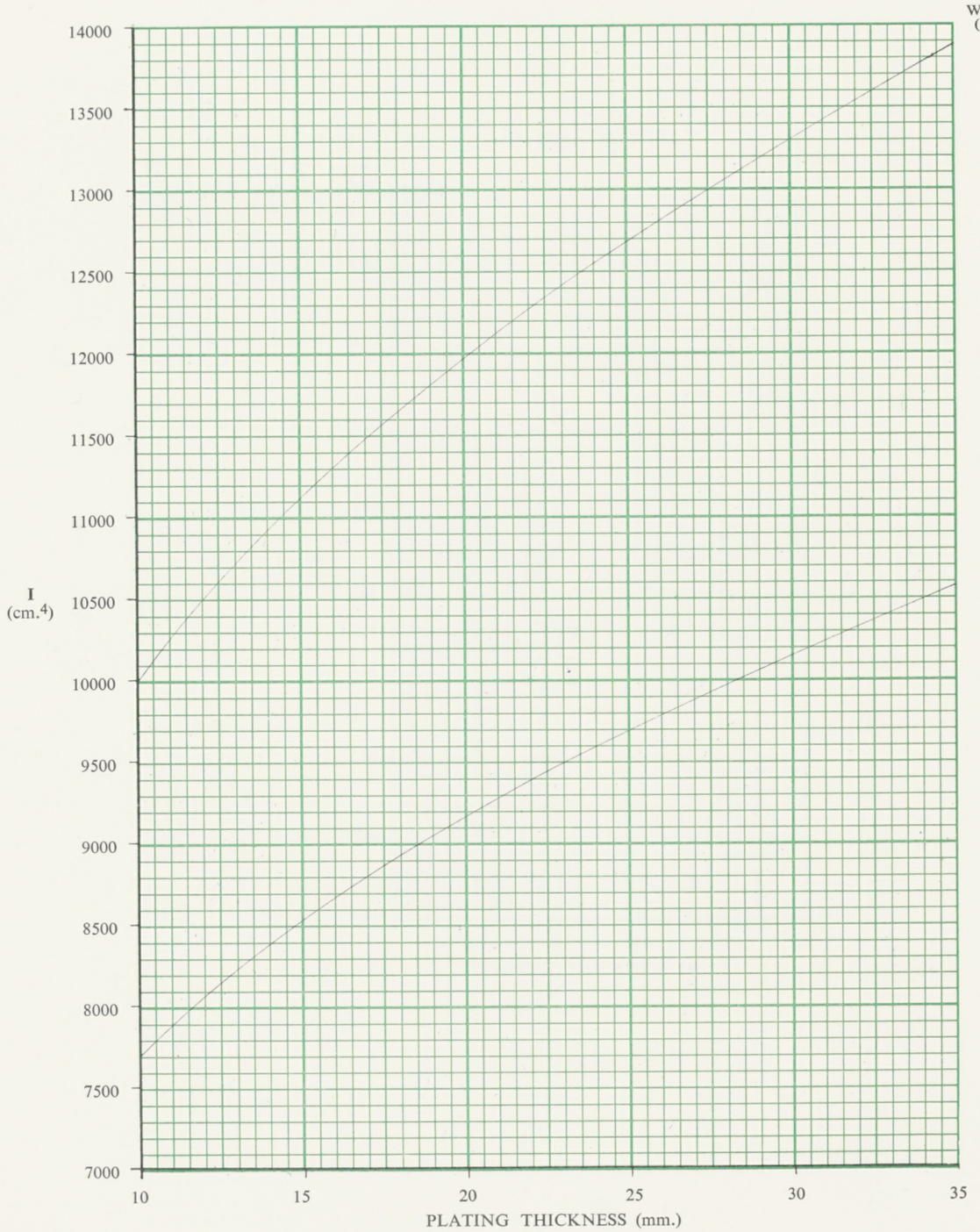


MOMENT OF INERTIA OF CHANNELS

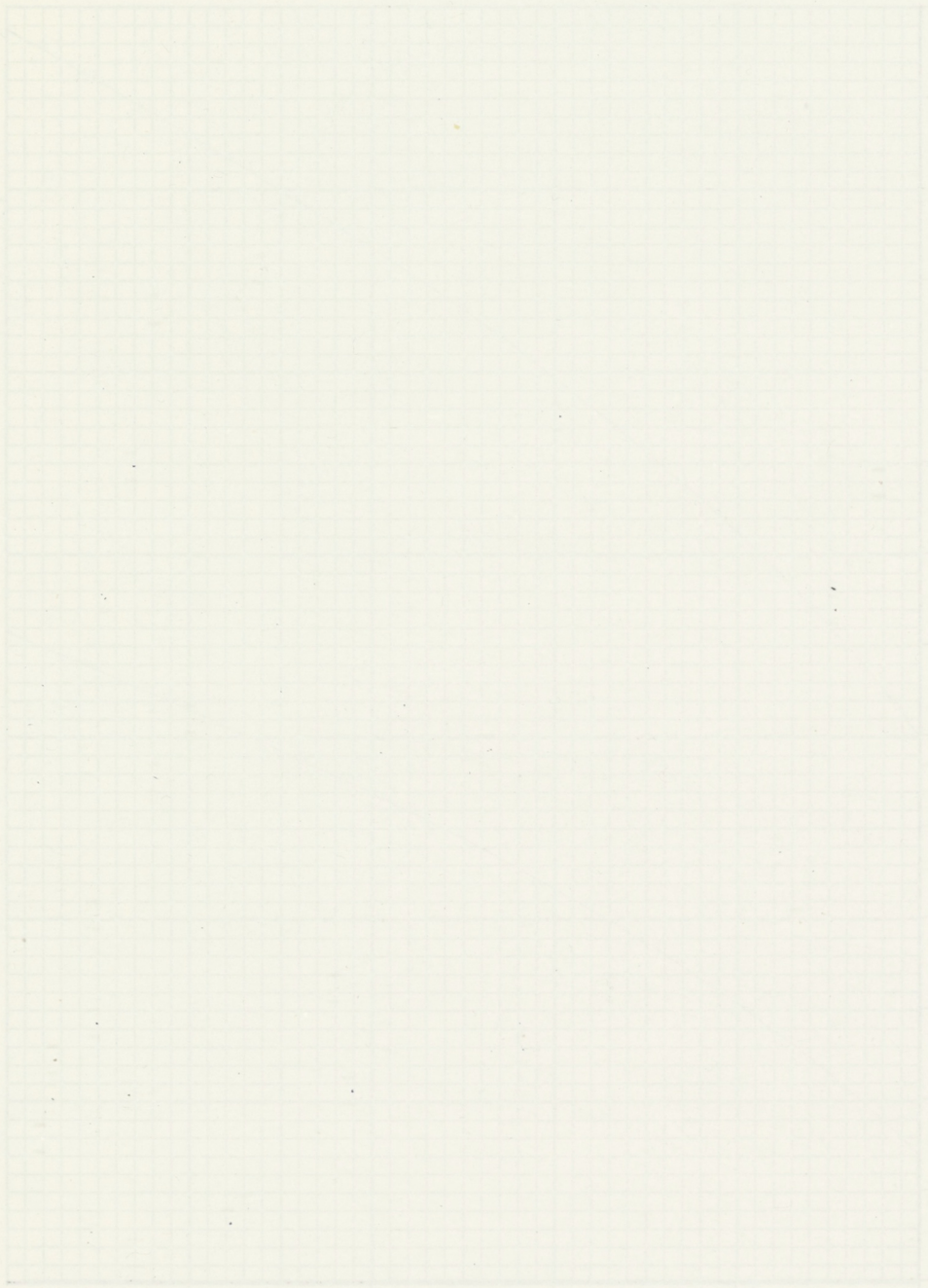
(WITH PLATING)



250 mm. DEPTH

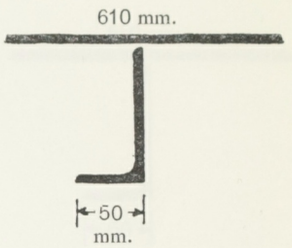


WIDTH (mm.)	FLANGE (mm.)	WEB (mm.)
100	16	10
80	11,5	10



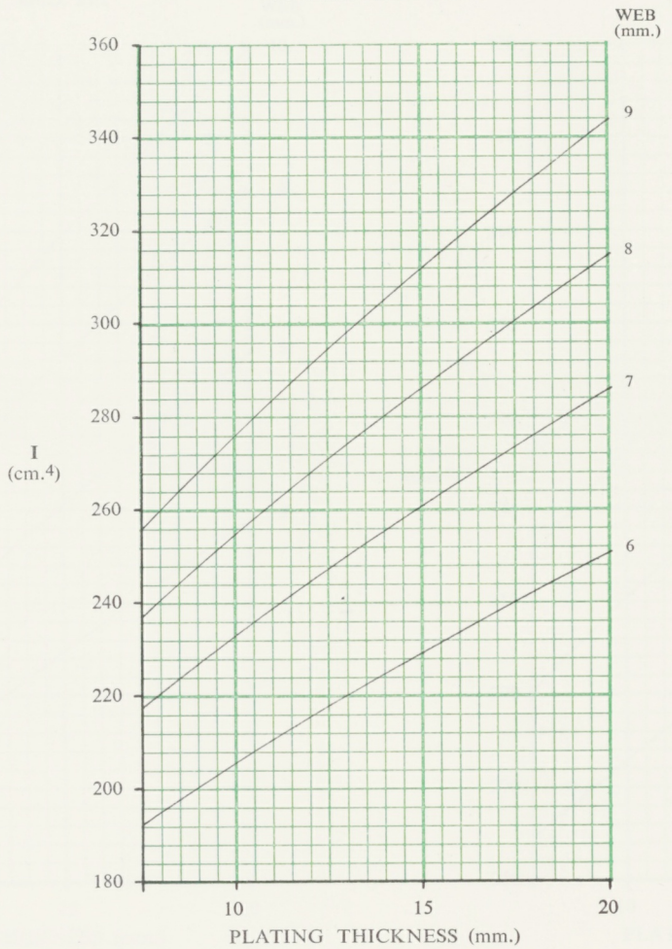
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)



50 mm. FLANGE

70 mm. DEPTH



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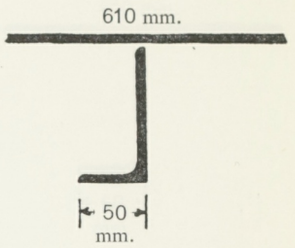
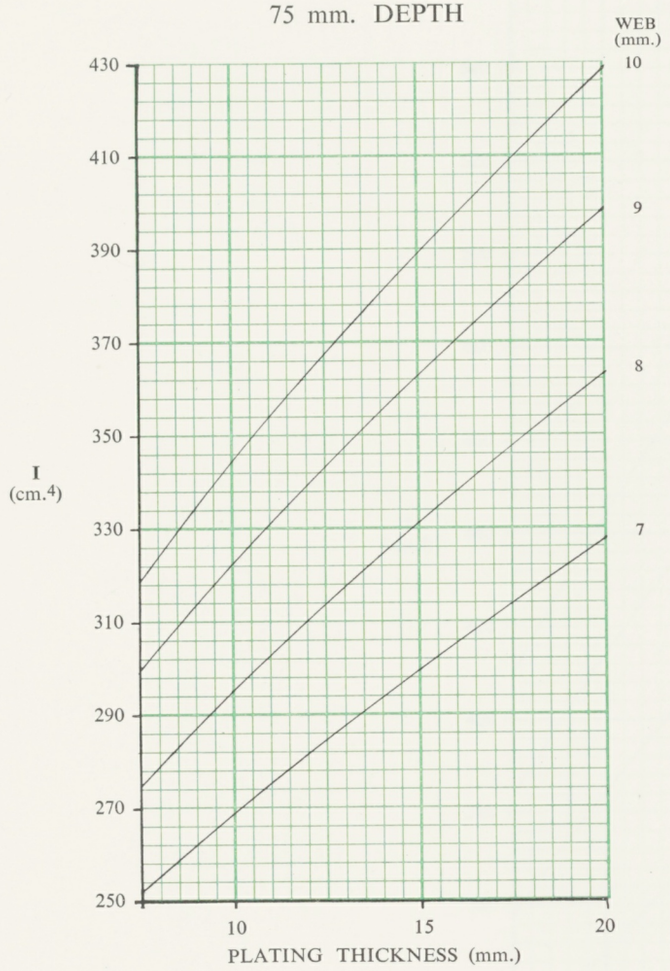
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

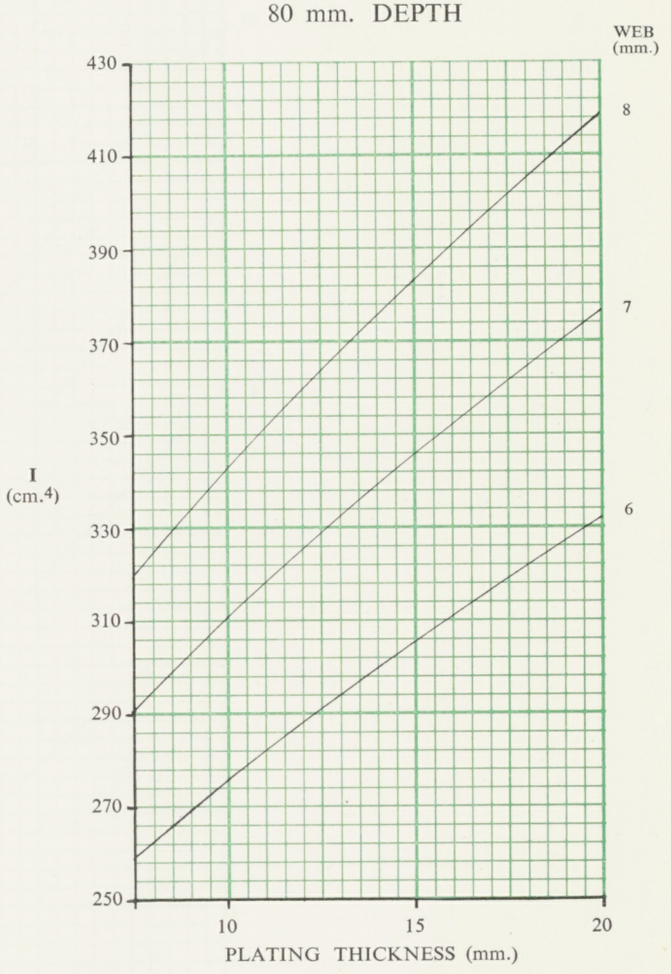


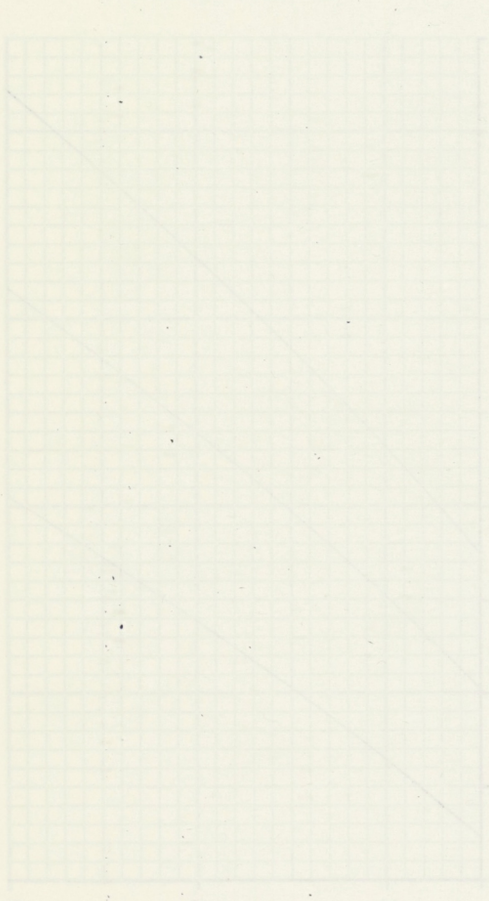
50 mm. FLANGE

75 mm. DEPTH



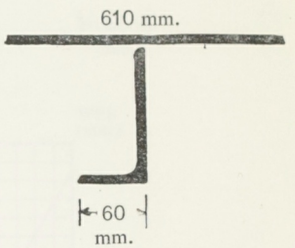
80 mm. DEPTH





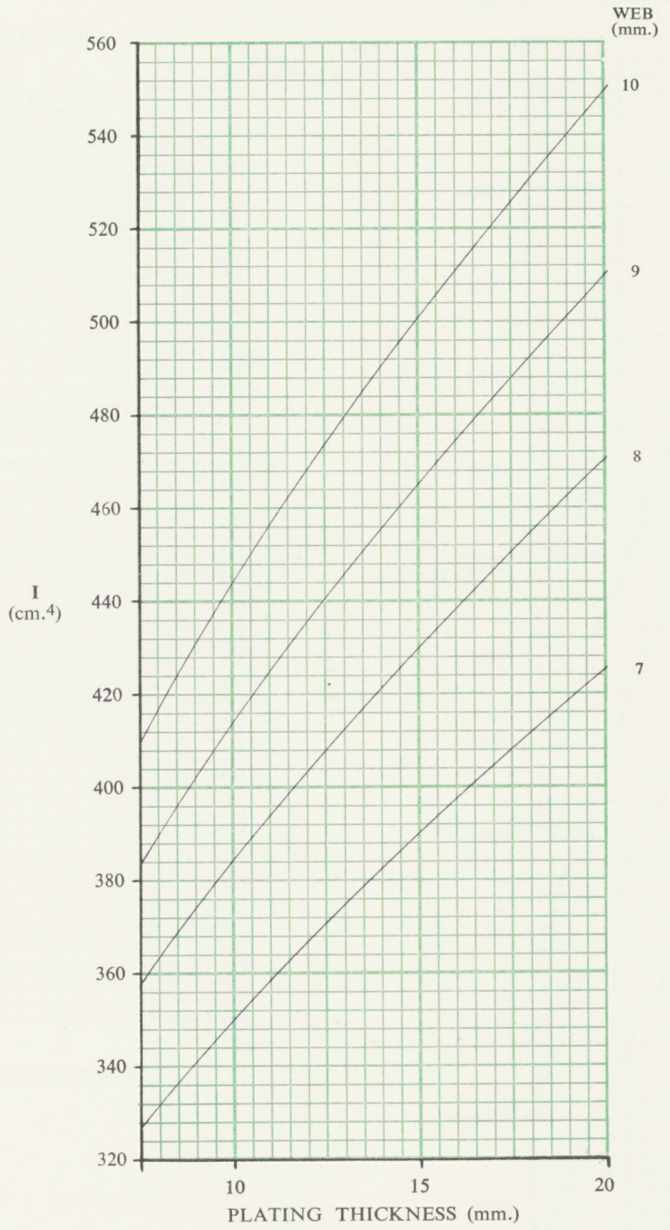
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)



60 mm. FLANGE

80 mm. DEPTH



MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

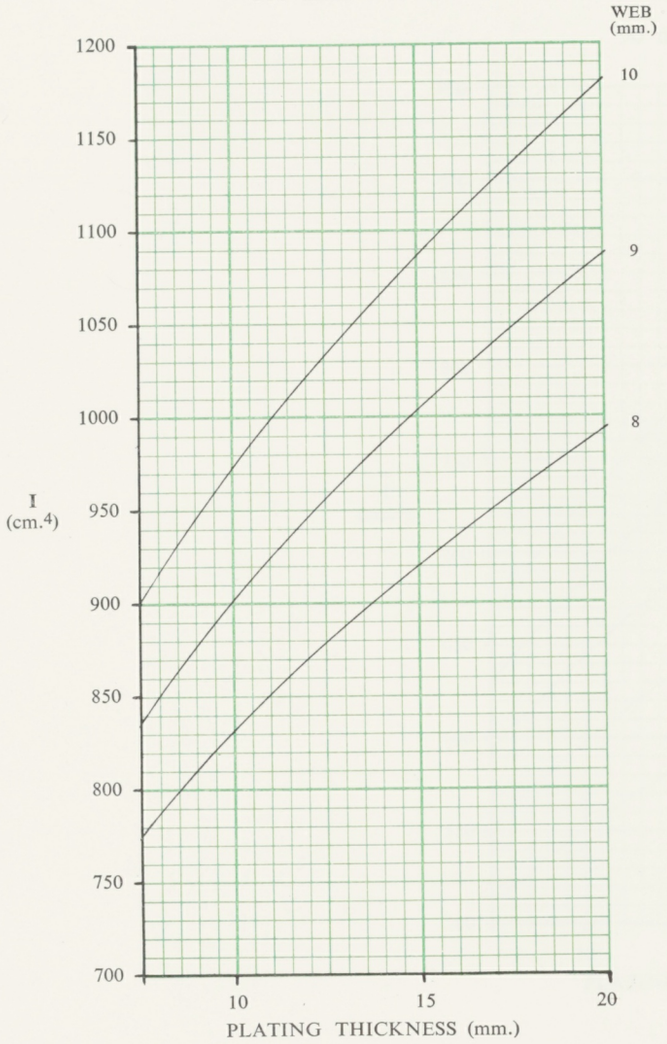
65 mm. FLANGE

FRANCE

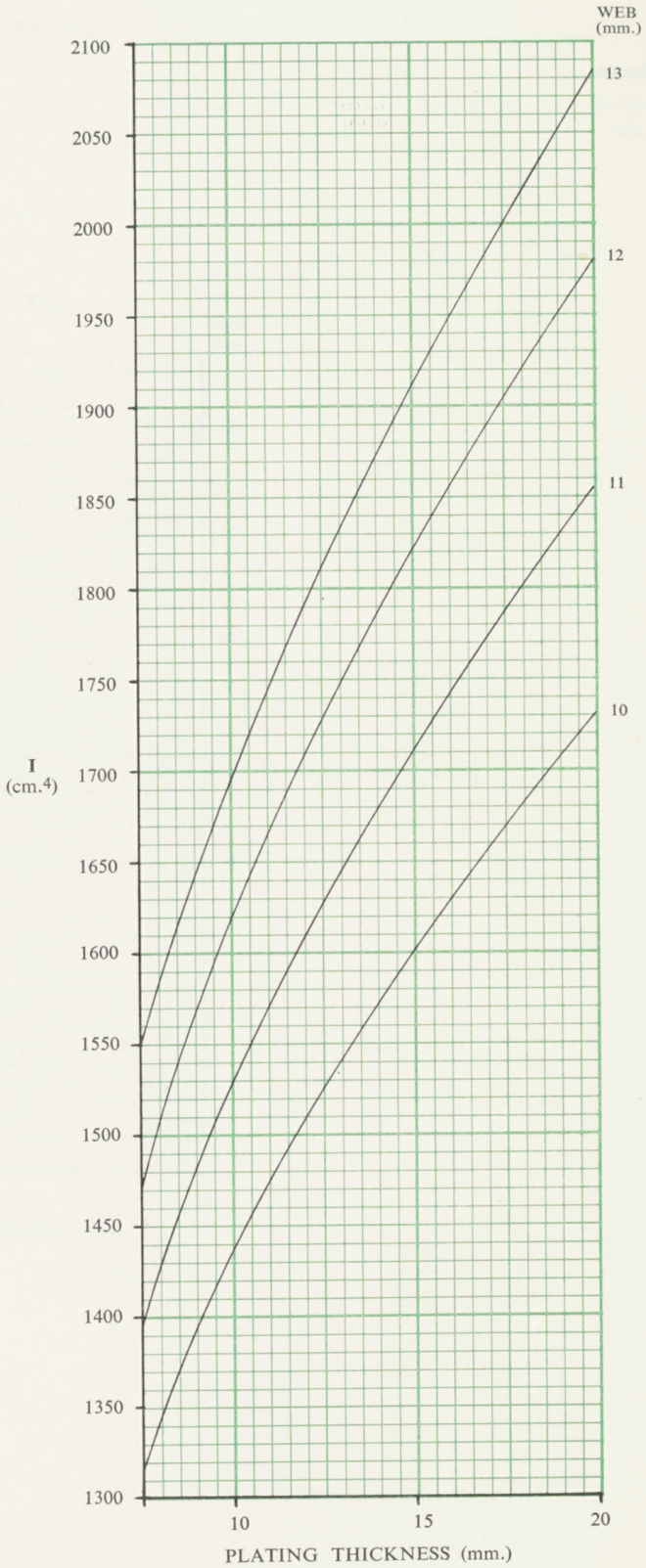
610 mm.

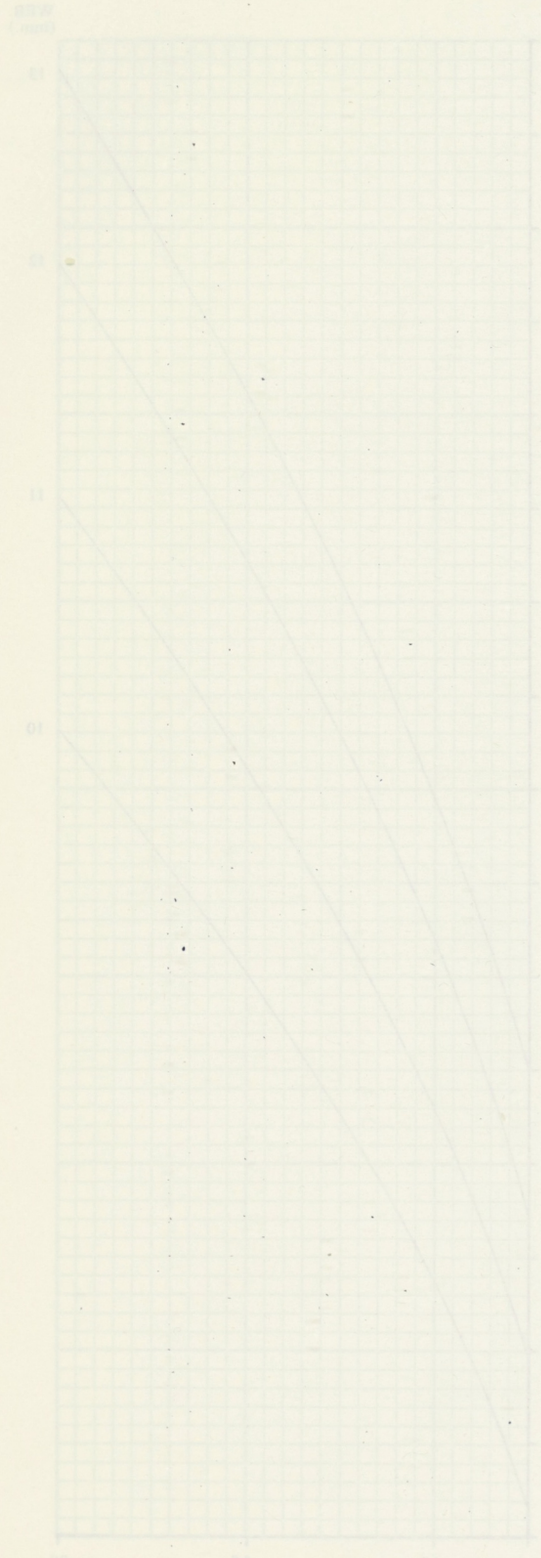
65 mm.

110 mm. DEPTH



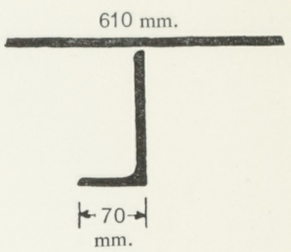
130 mm. DEPTH





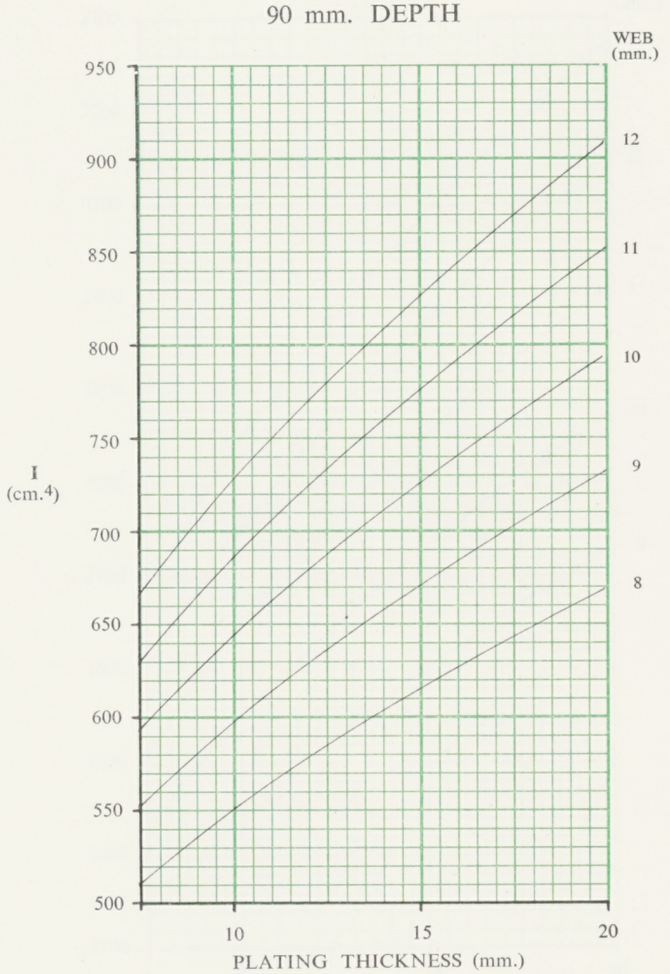
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)



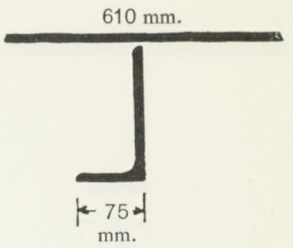
70 mm. FLANGE

90 mm. DEPTH



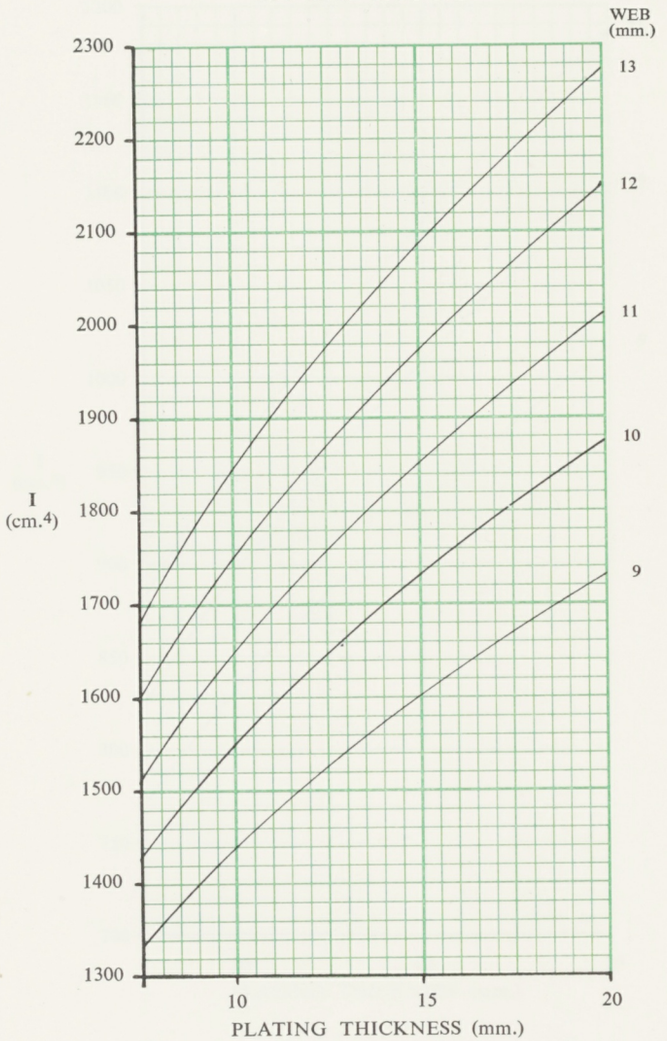
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)



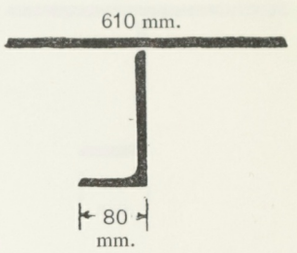
75 mm. FLANGE

130 mm. DEPTH



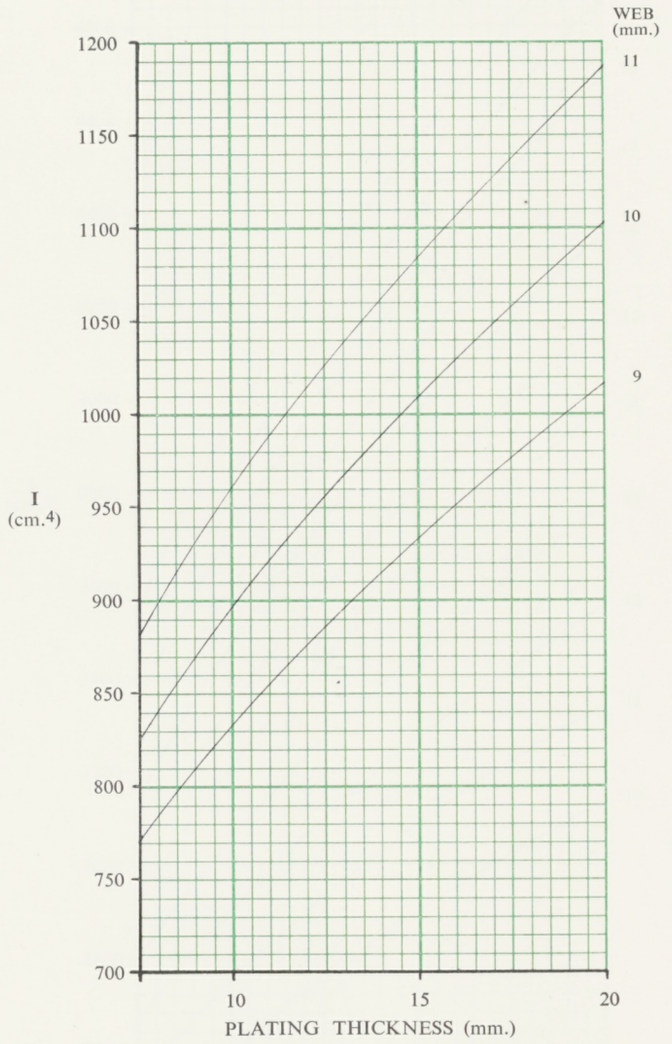
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)



80 mm. FLANGE

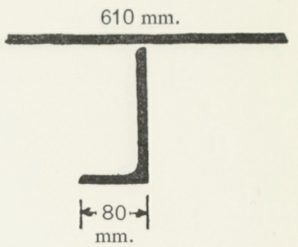
100 mm. DEPTH



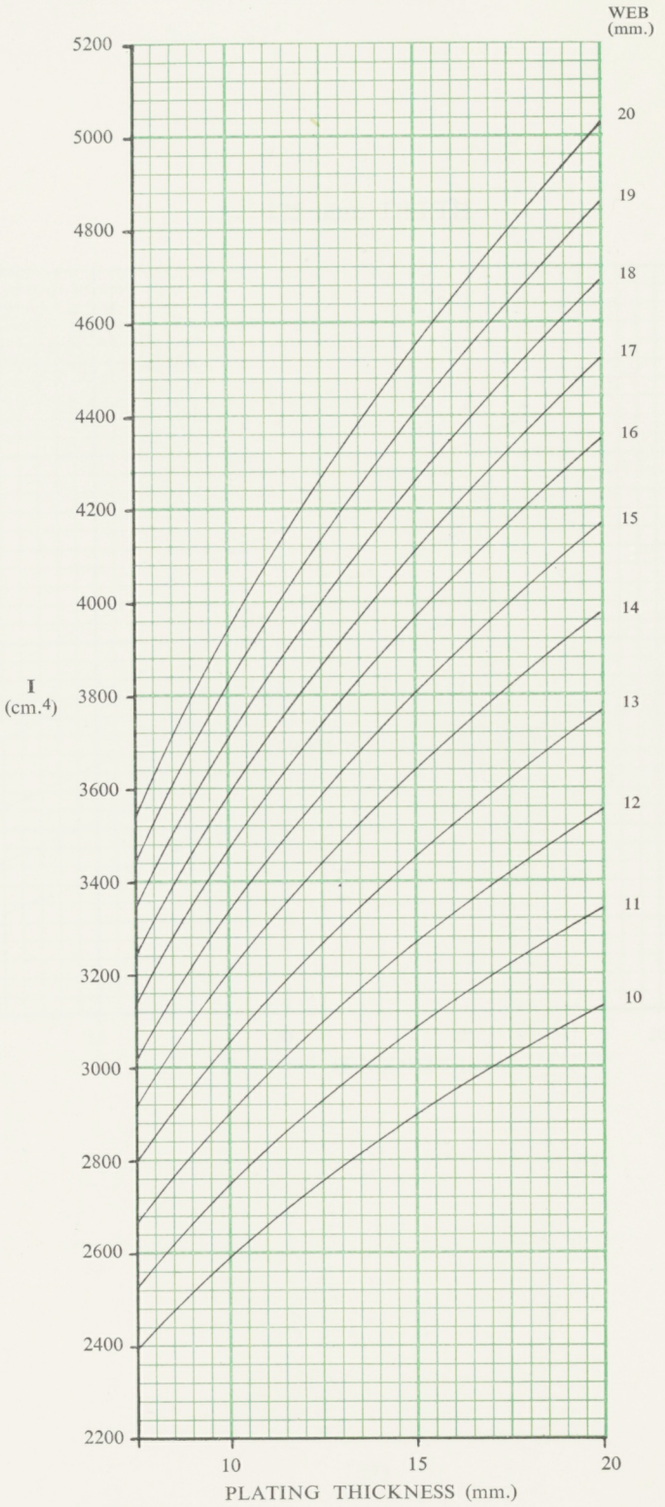
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

80 mm. FLANGE

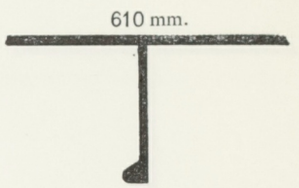


160 mm. DEPTH

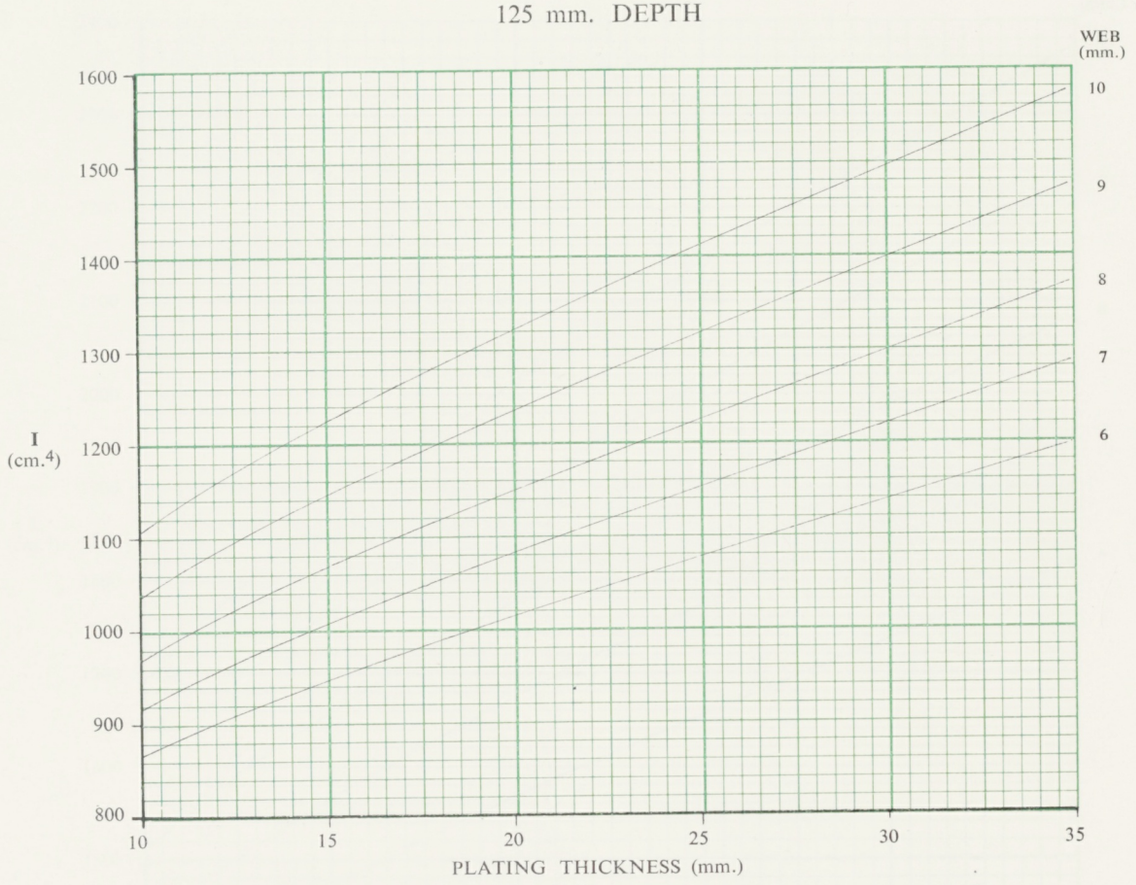


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)

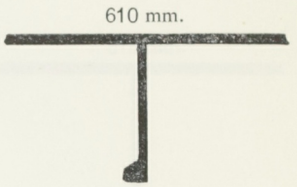


125 mm. DEPTH

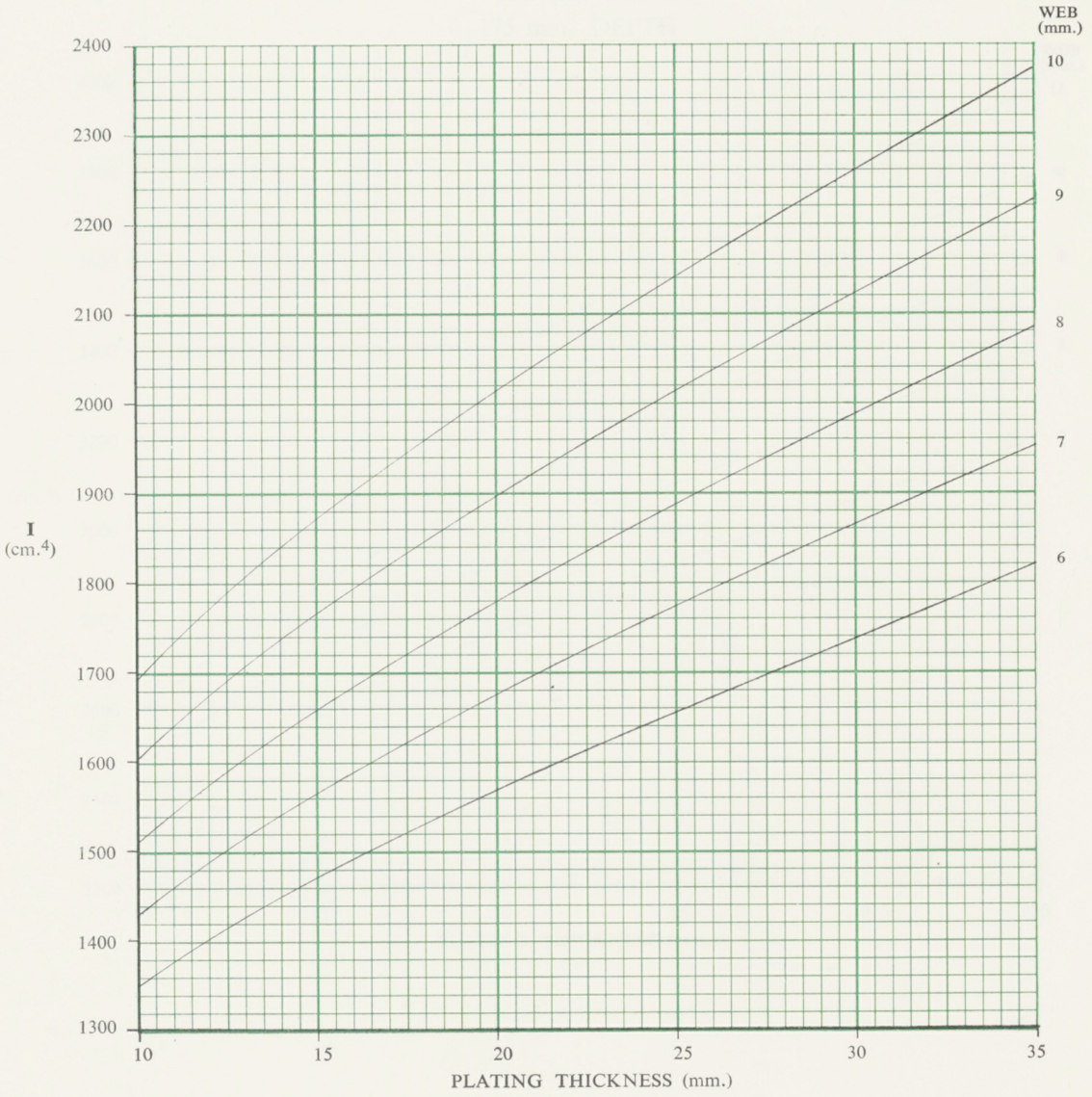


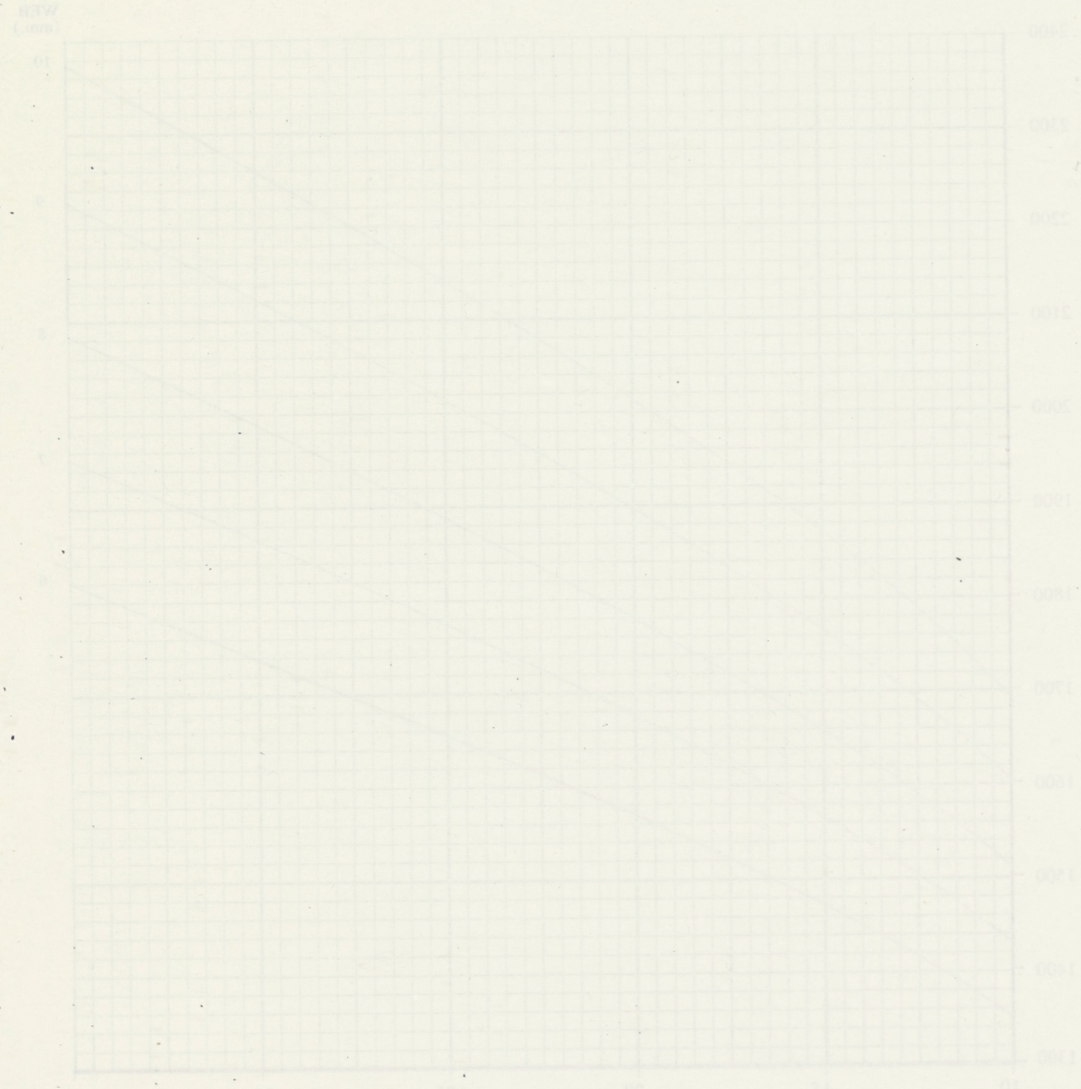
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)



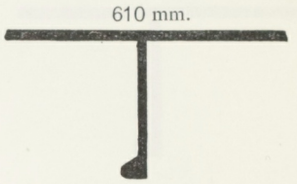
150 mm. DEPTH



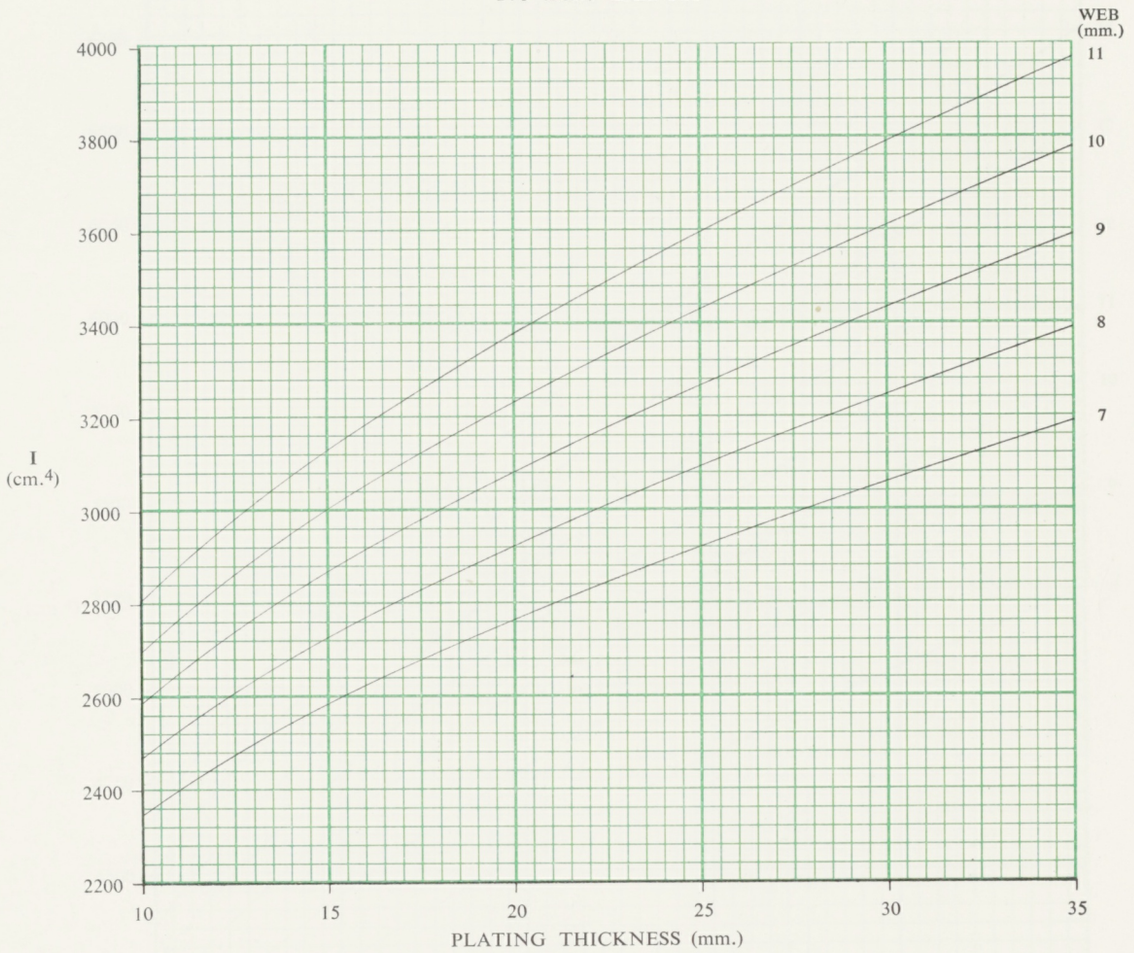


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)

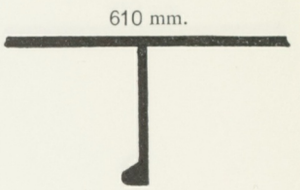


175 mm. DEPTH

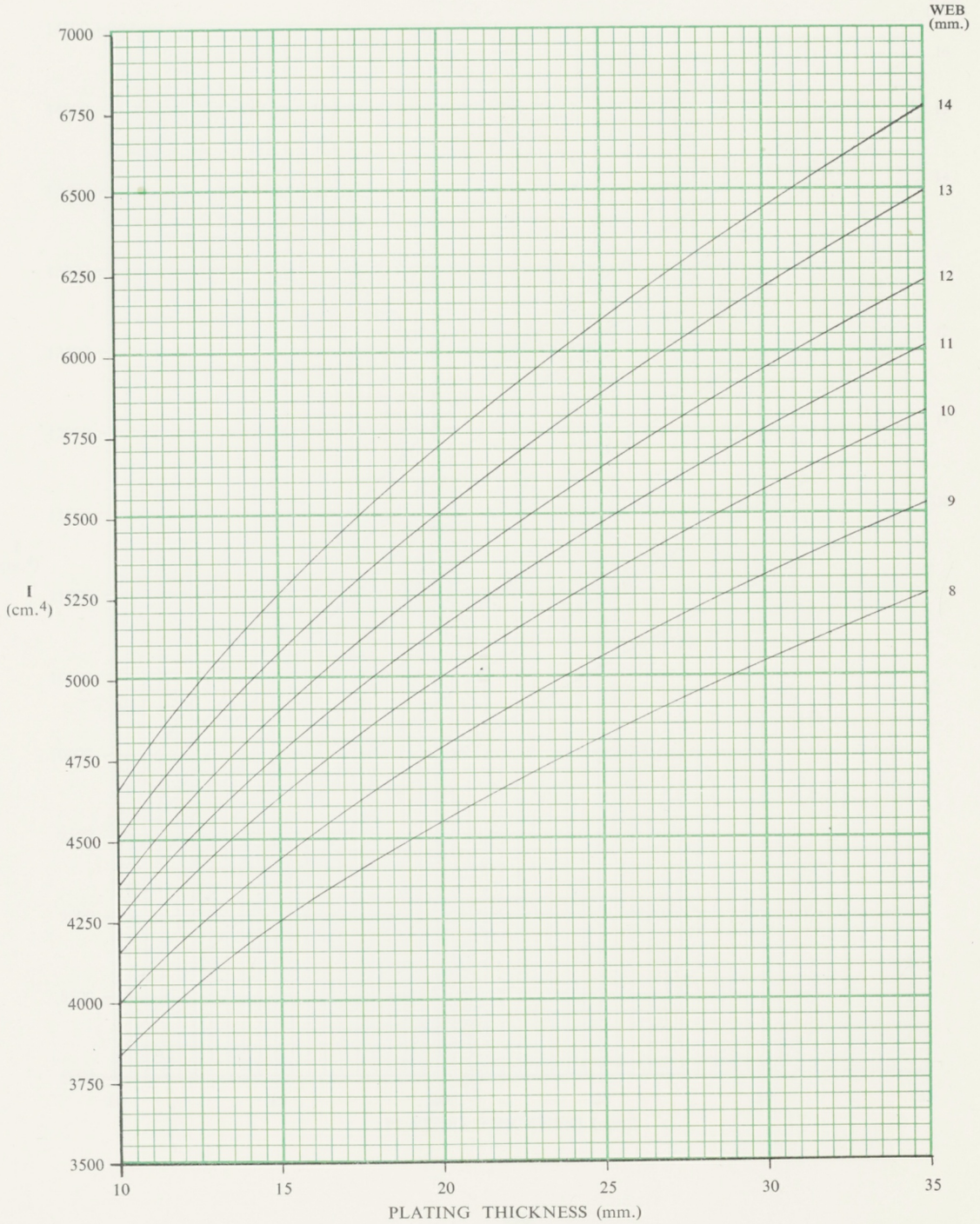


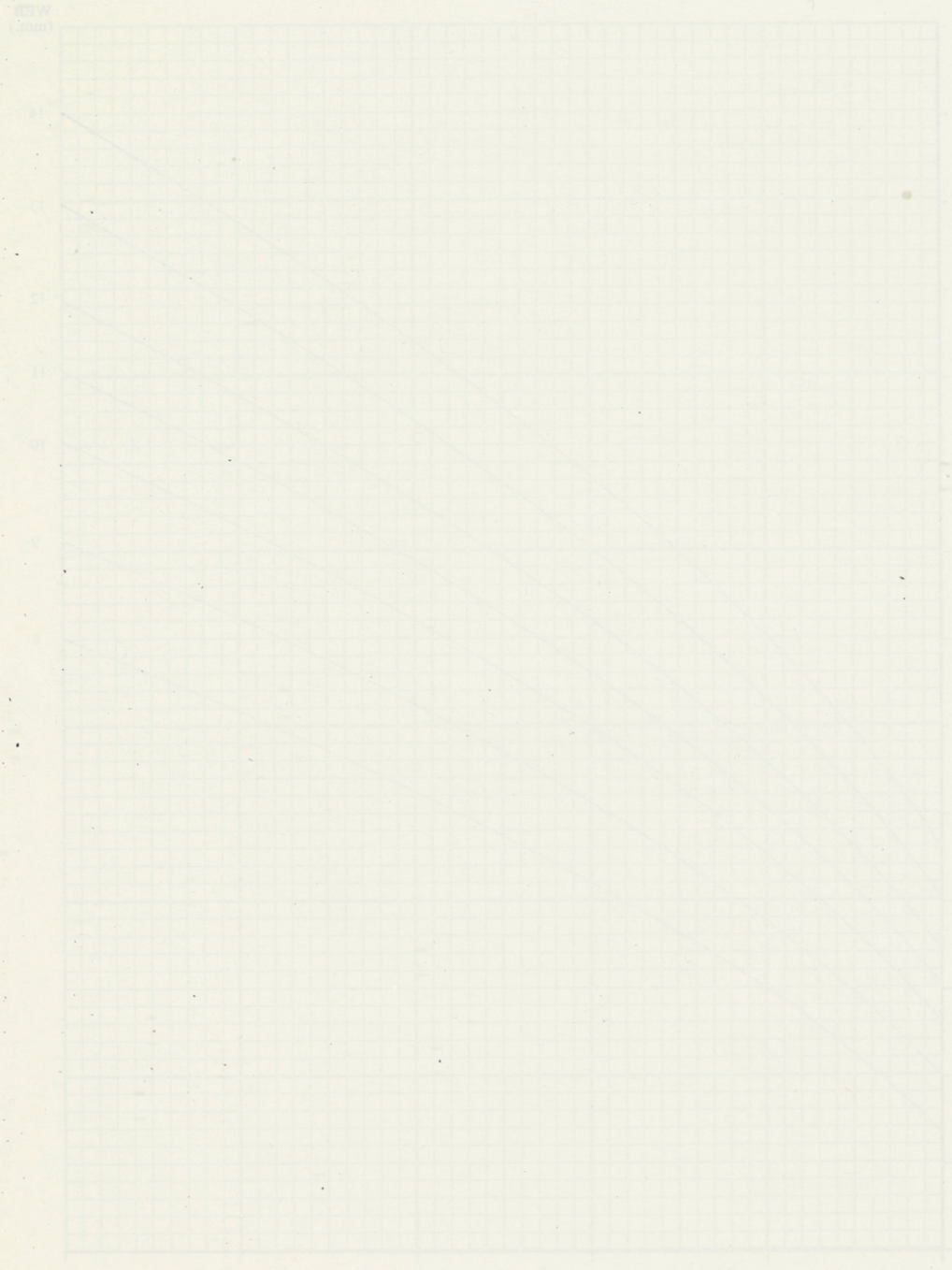
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)



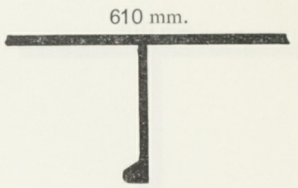
200 mm. DEPTH



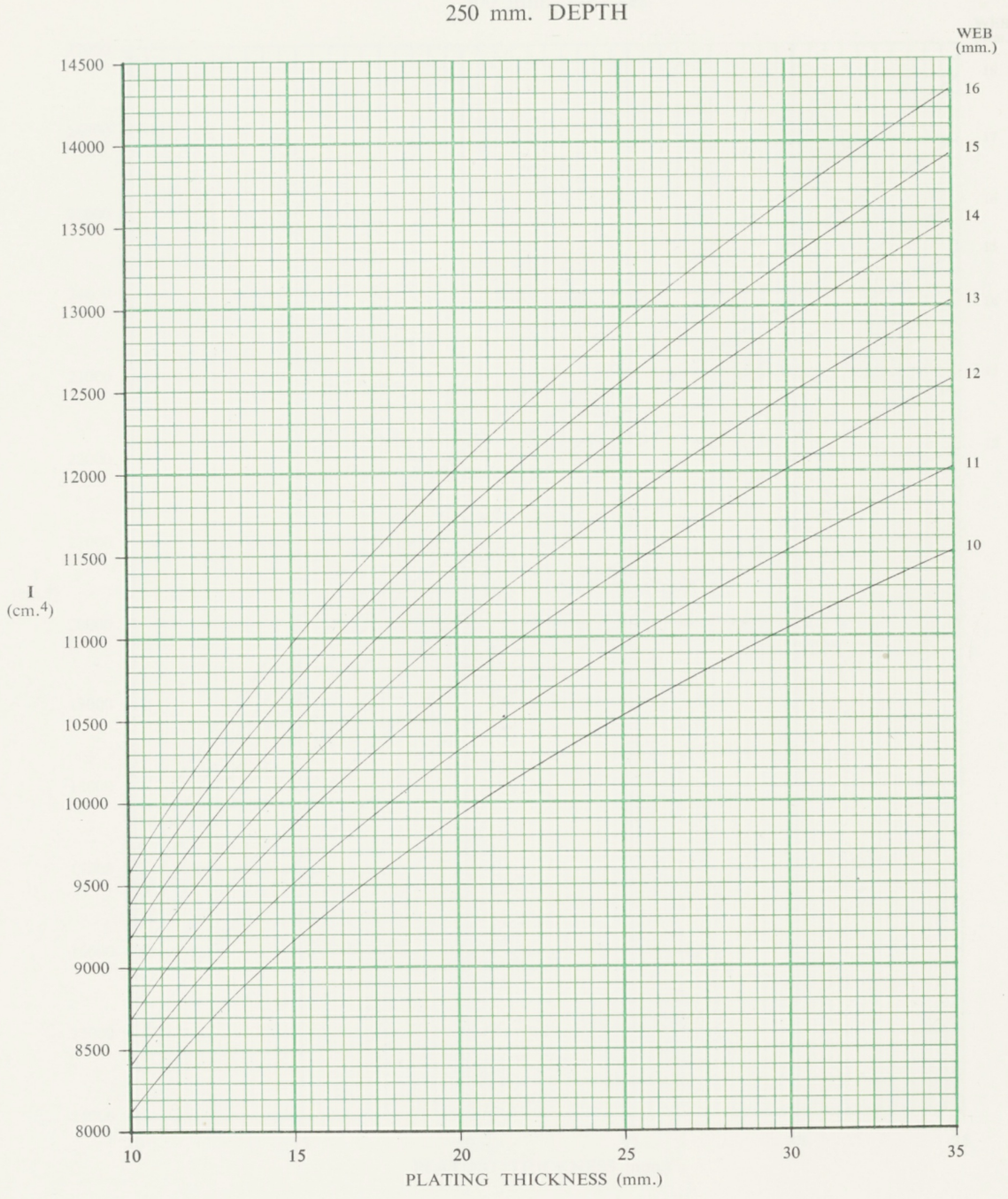


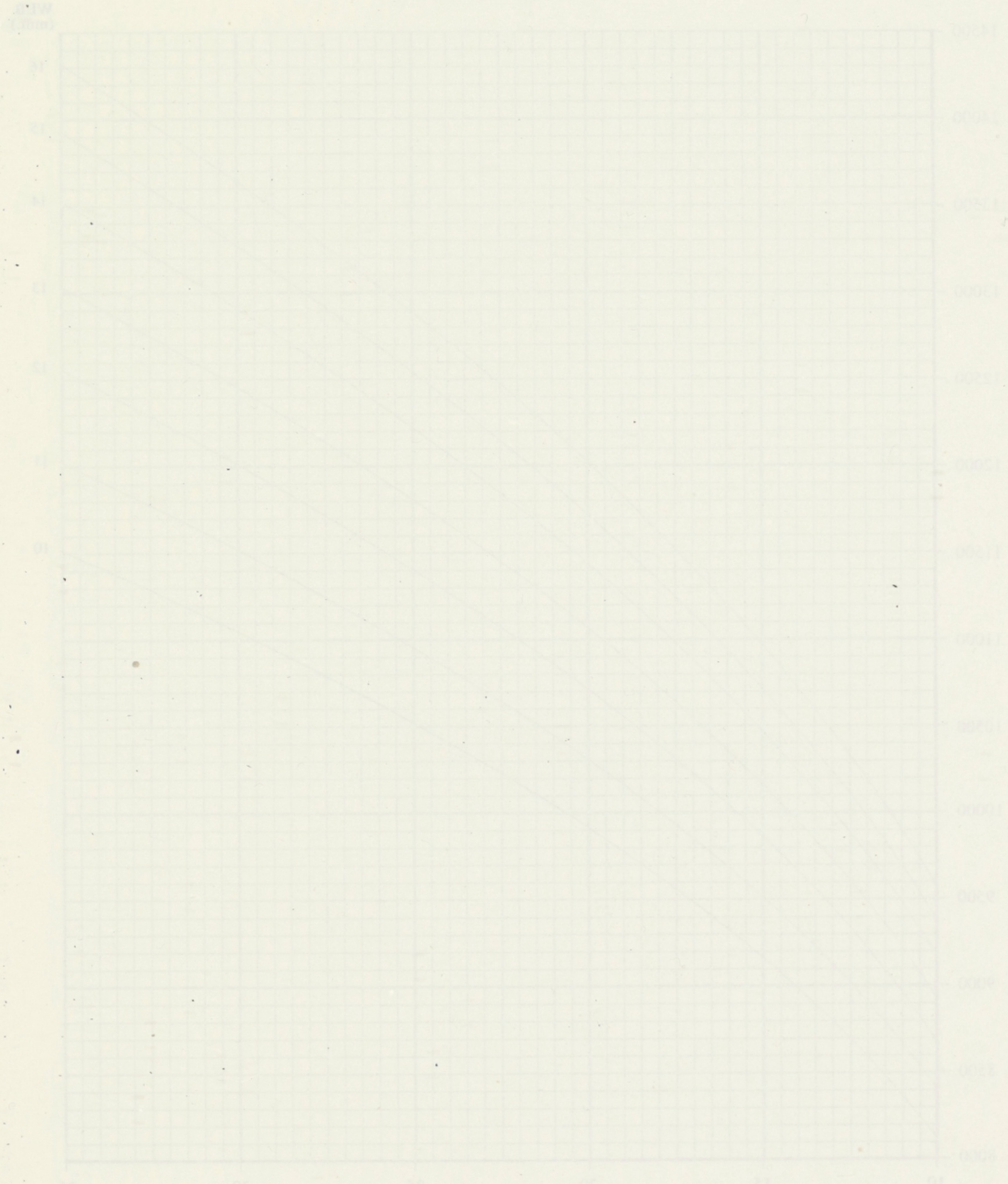
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)



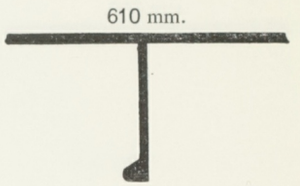
250 mm. DEPTH



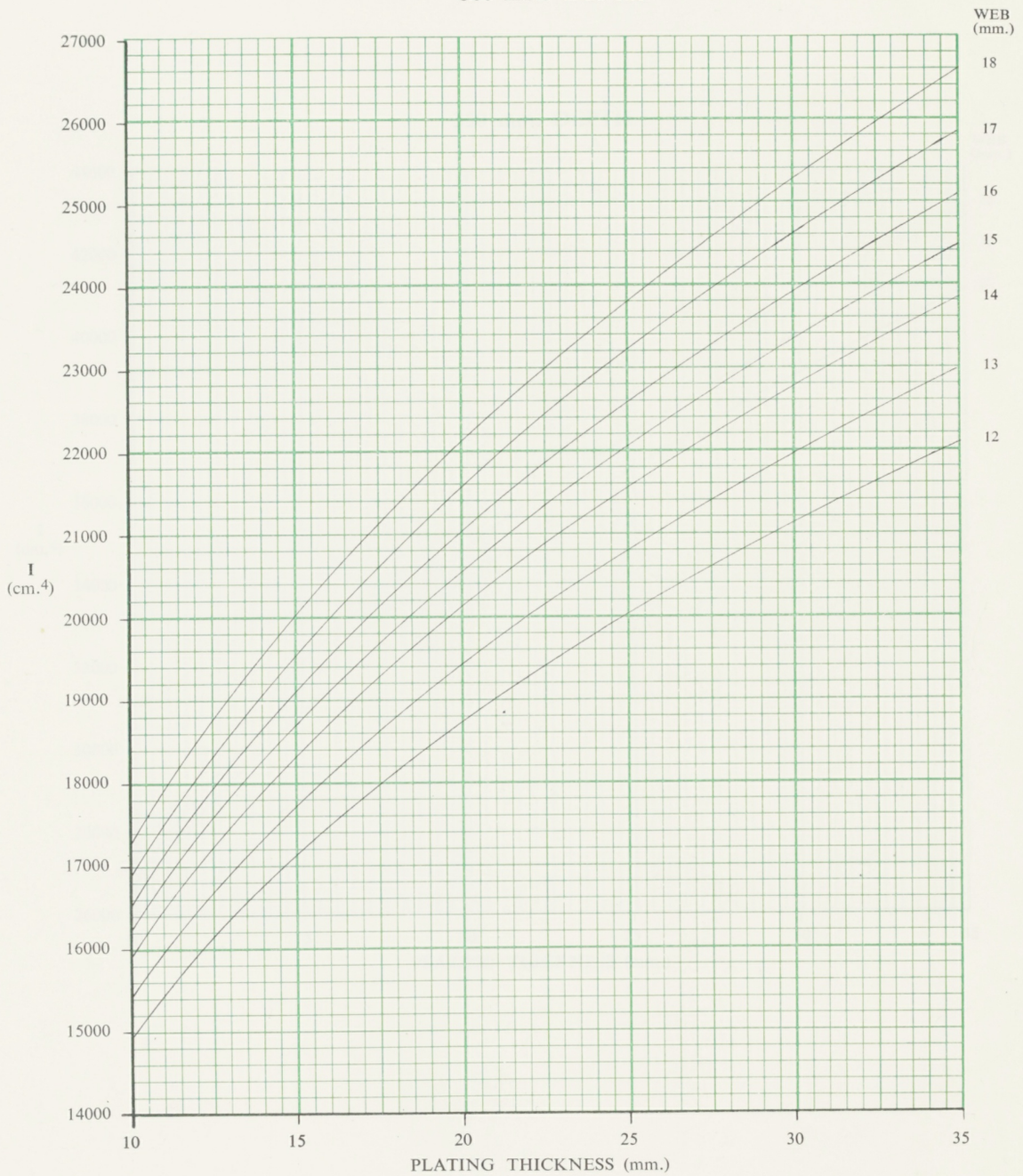


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)

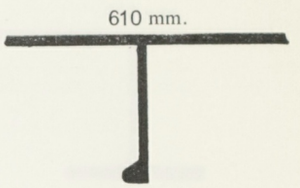


300 mm. DEPTH

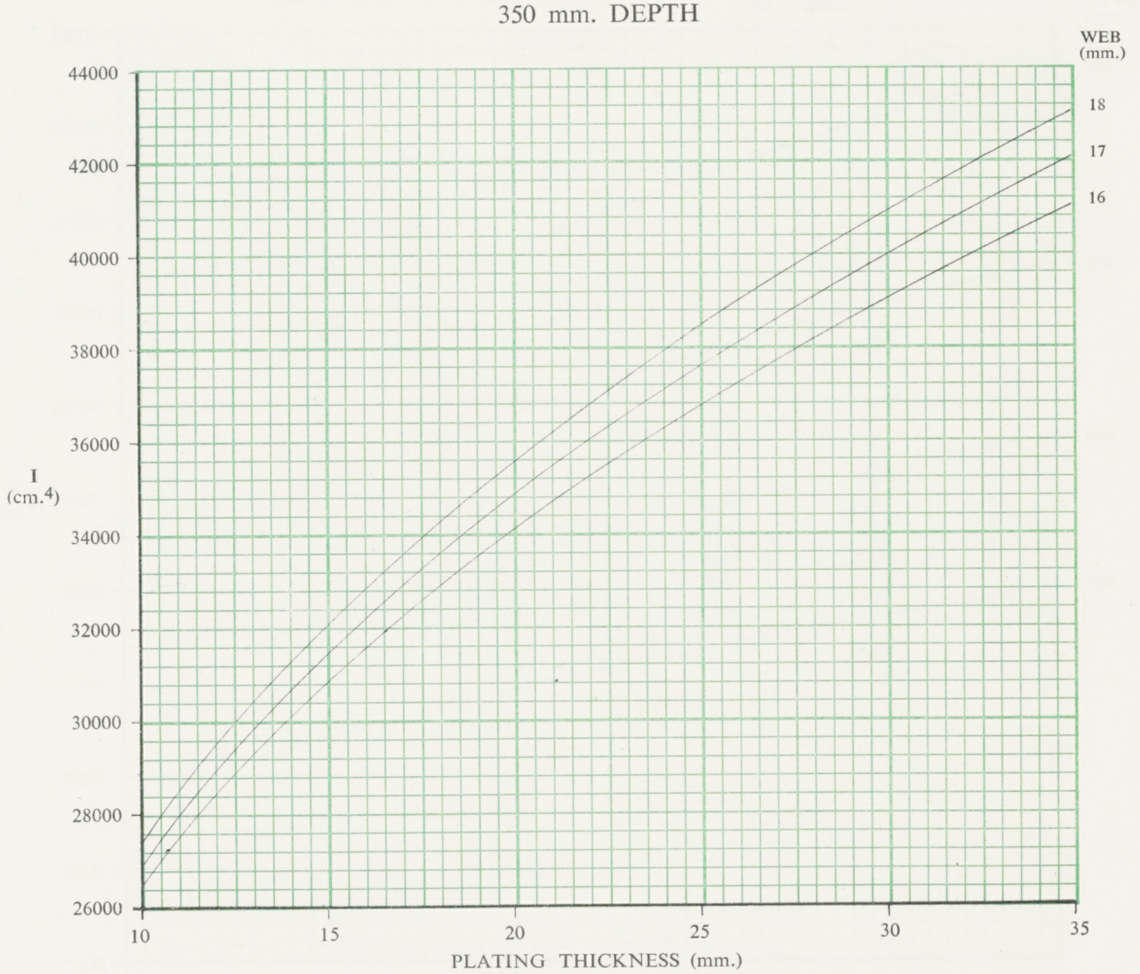


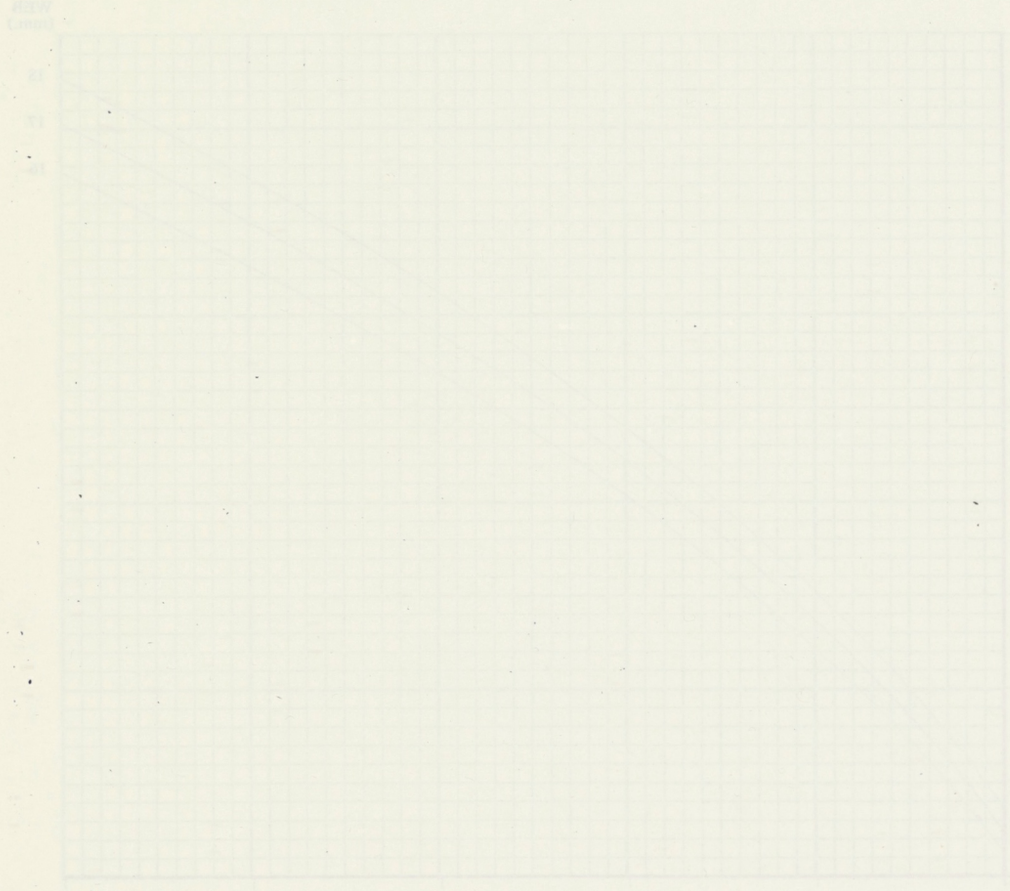
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)



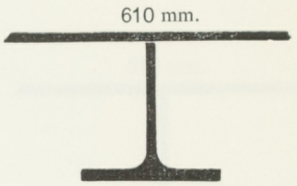
350 mm. DEPTH



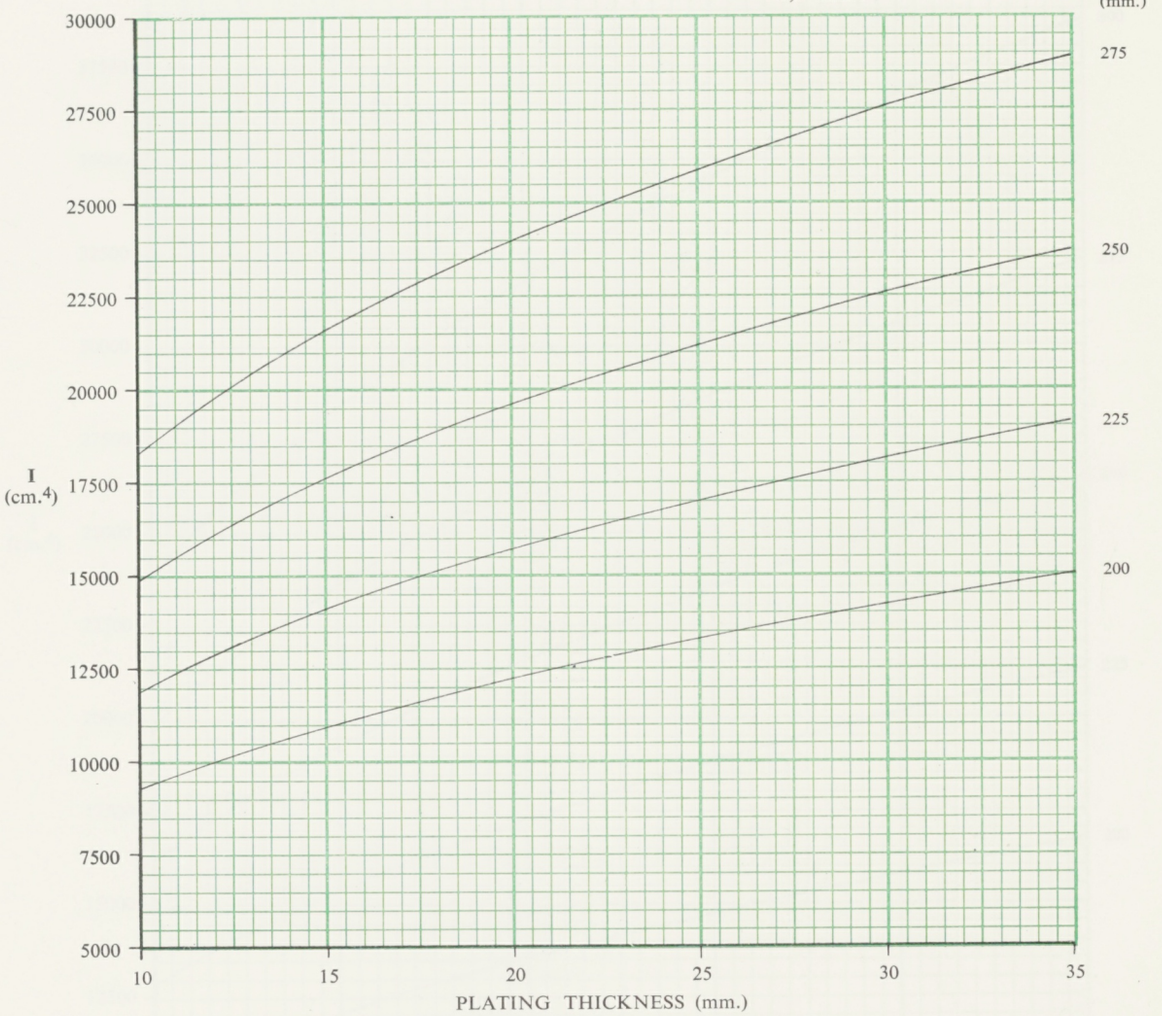


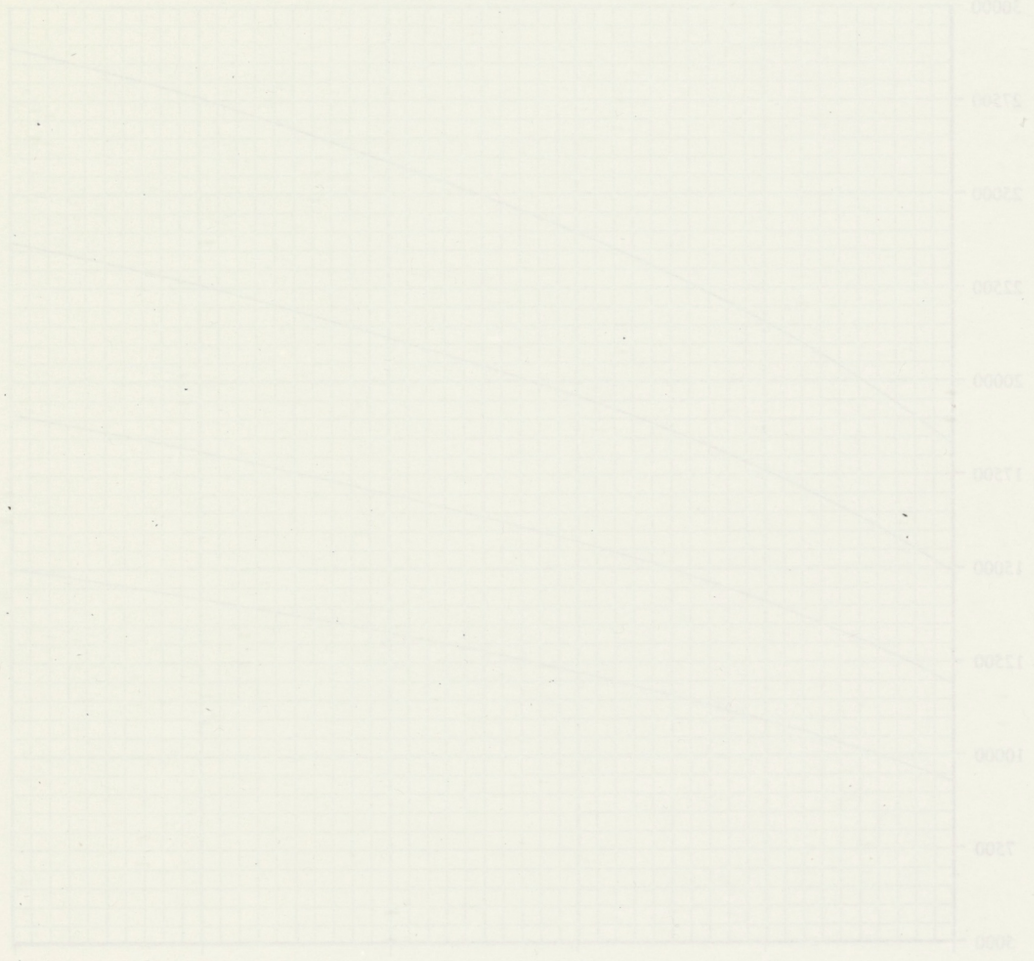
MOMENT OF INERTIA OF T - SECTIONS

(WITH PLATING)



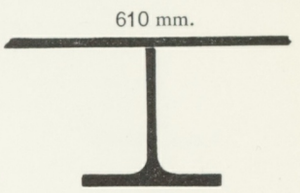
Cut from U.C.P.M.I. 400 mm. × 180 mm. × $\frac{19{,}5 \text{ mm.}}{10{,}3 \text{ mm.}}$ Joist



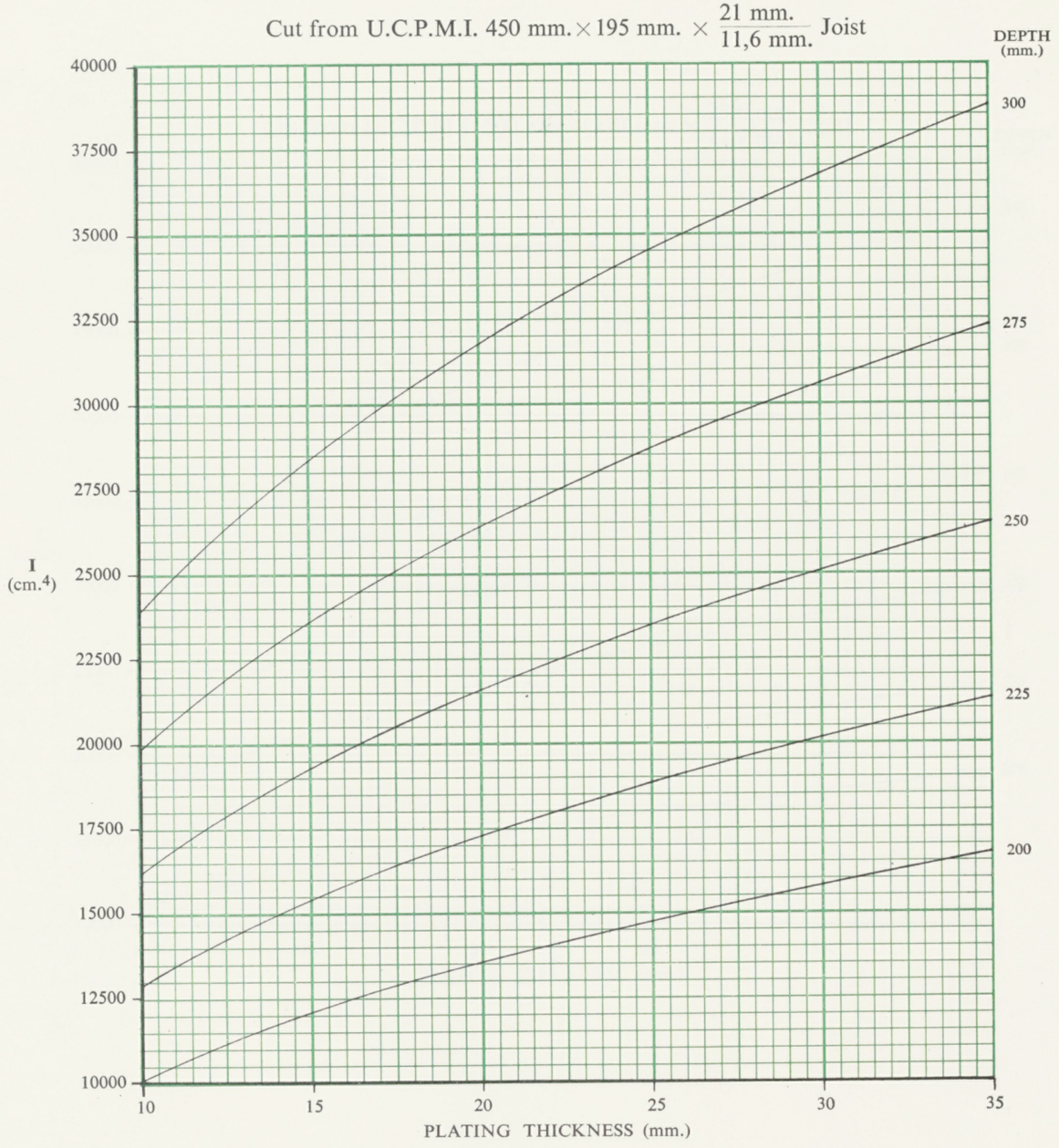


MOMENT OF INERTIA OF T - SECTIONS

(WITH PLATING)

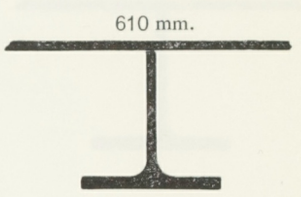


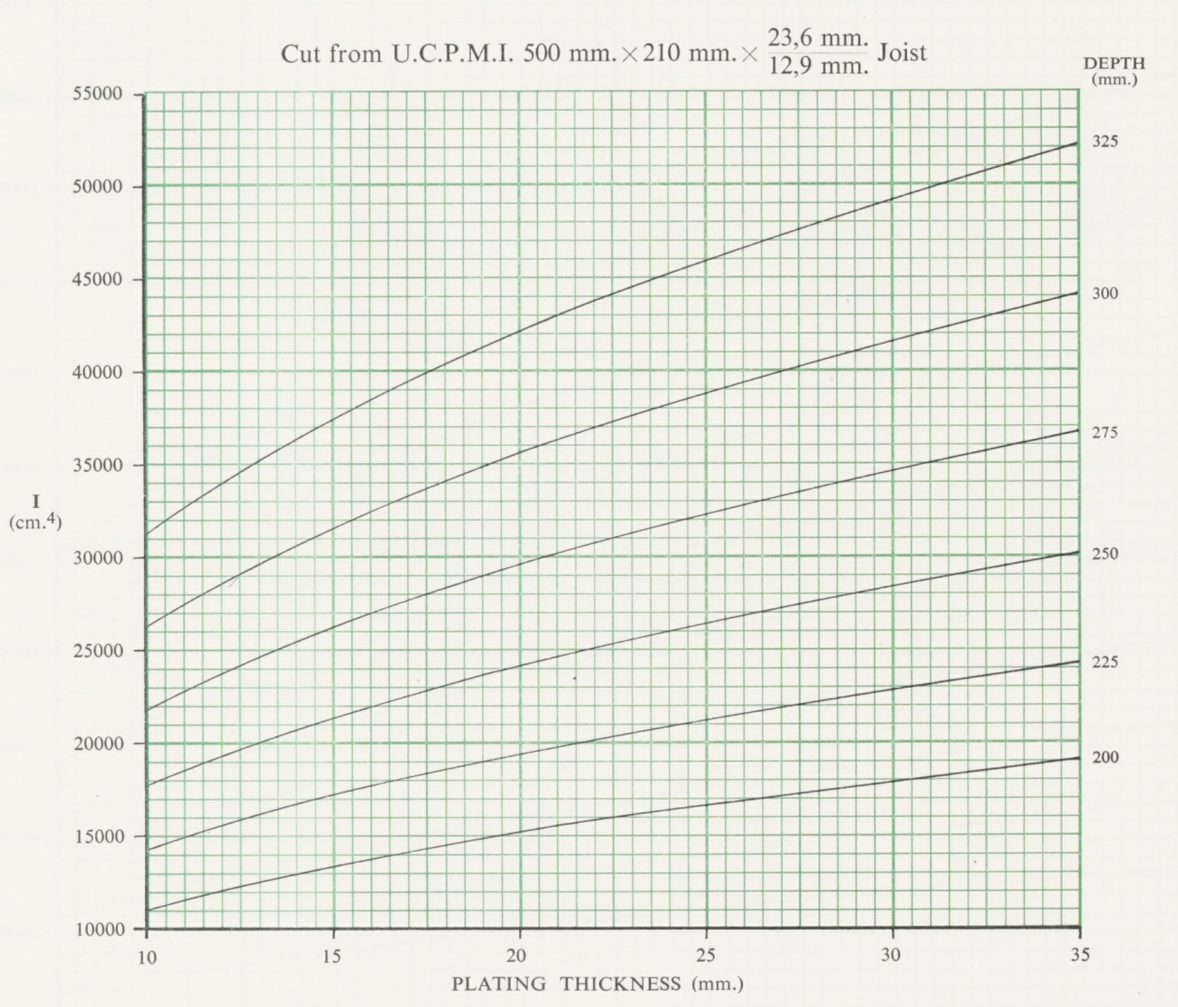
Cut from U.C.P.M.I. 450 mm. × 195 mm. × $\frac{21 \text{ mm.}}{11{,}6 \text{ mm.}}$ Joist



MOMENT OF INERTIA OF T - SECTIONS

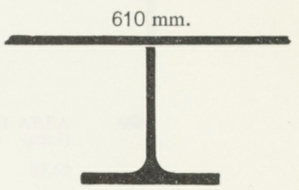
(WITH PLATING)



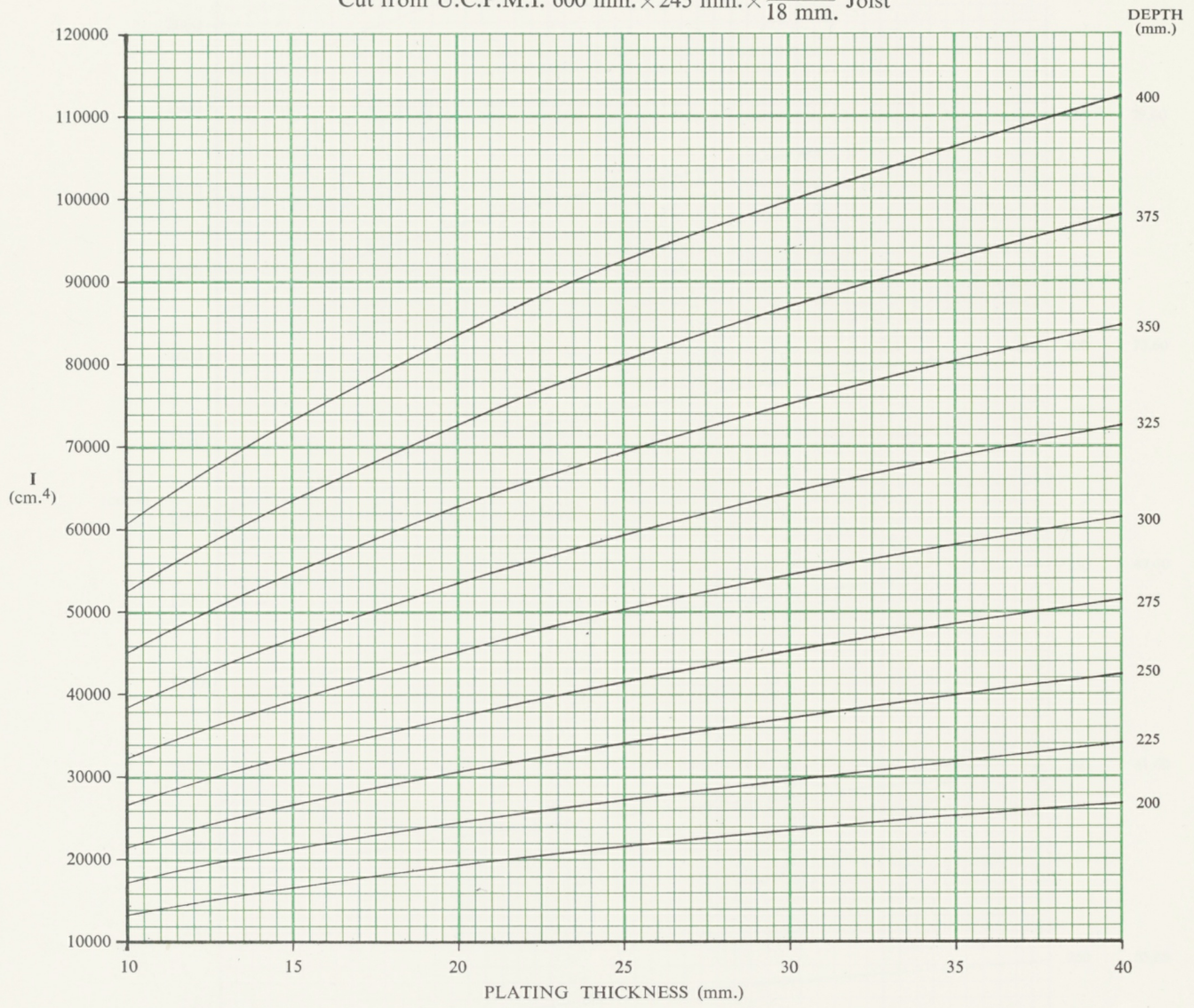


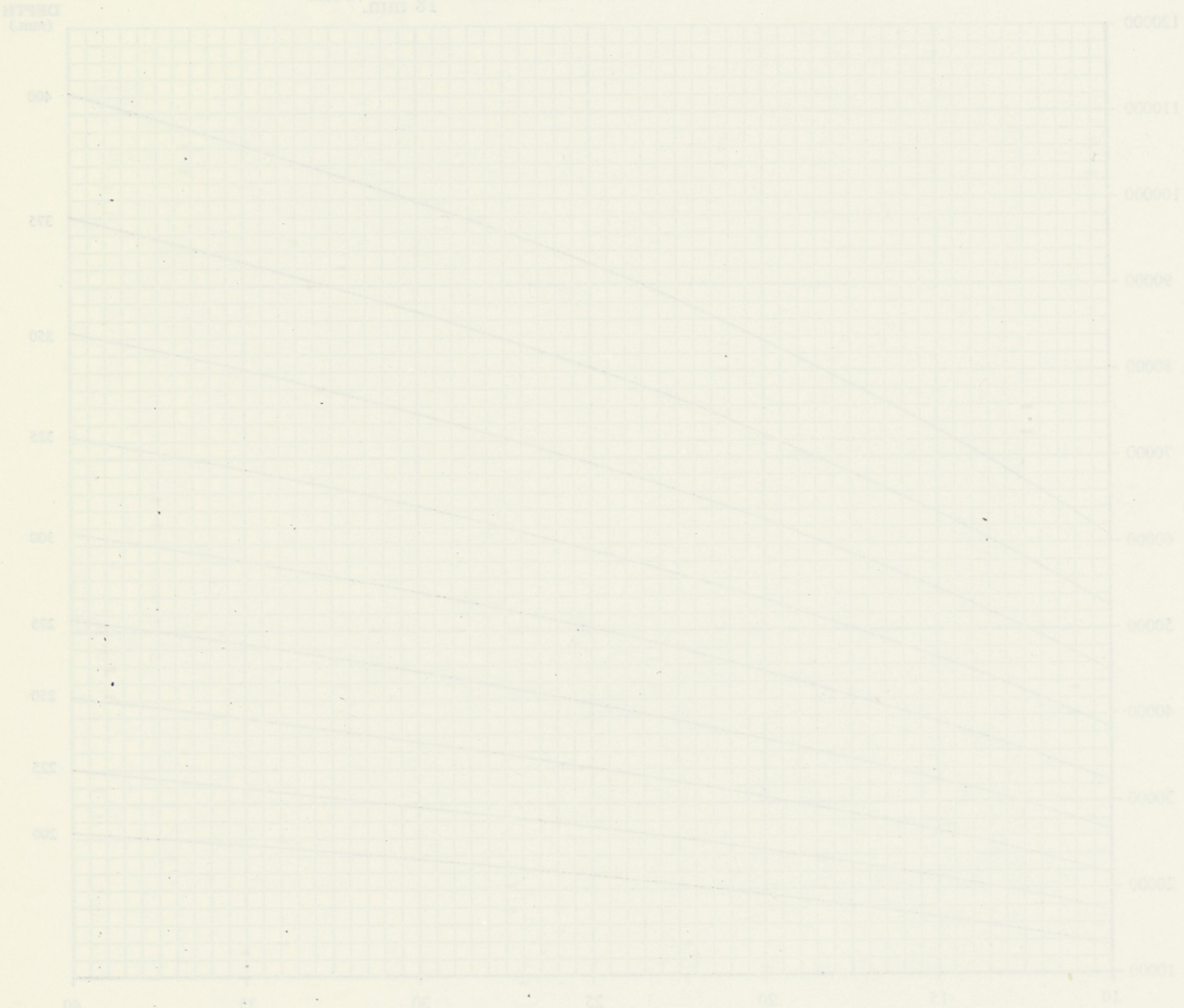
MOMENT OF INERTIA OF T - SECTIONS

(WITH PLATING)



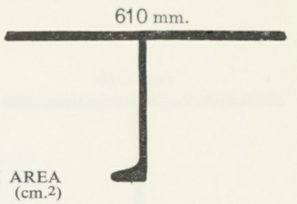
Cut from U.C.P.M.I. 600 mm. × 245 mm. × $\frac{32 \text{ mm.}}{18 \text{ mm.}}$ Joist





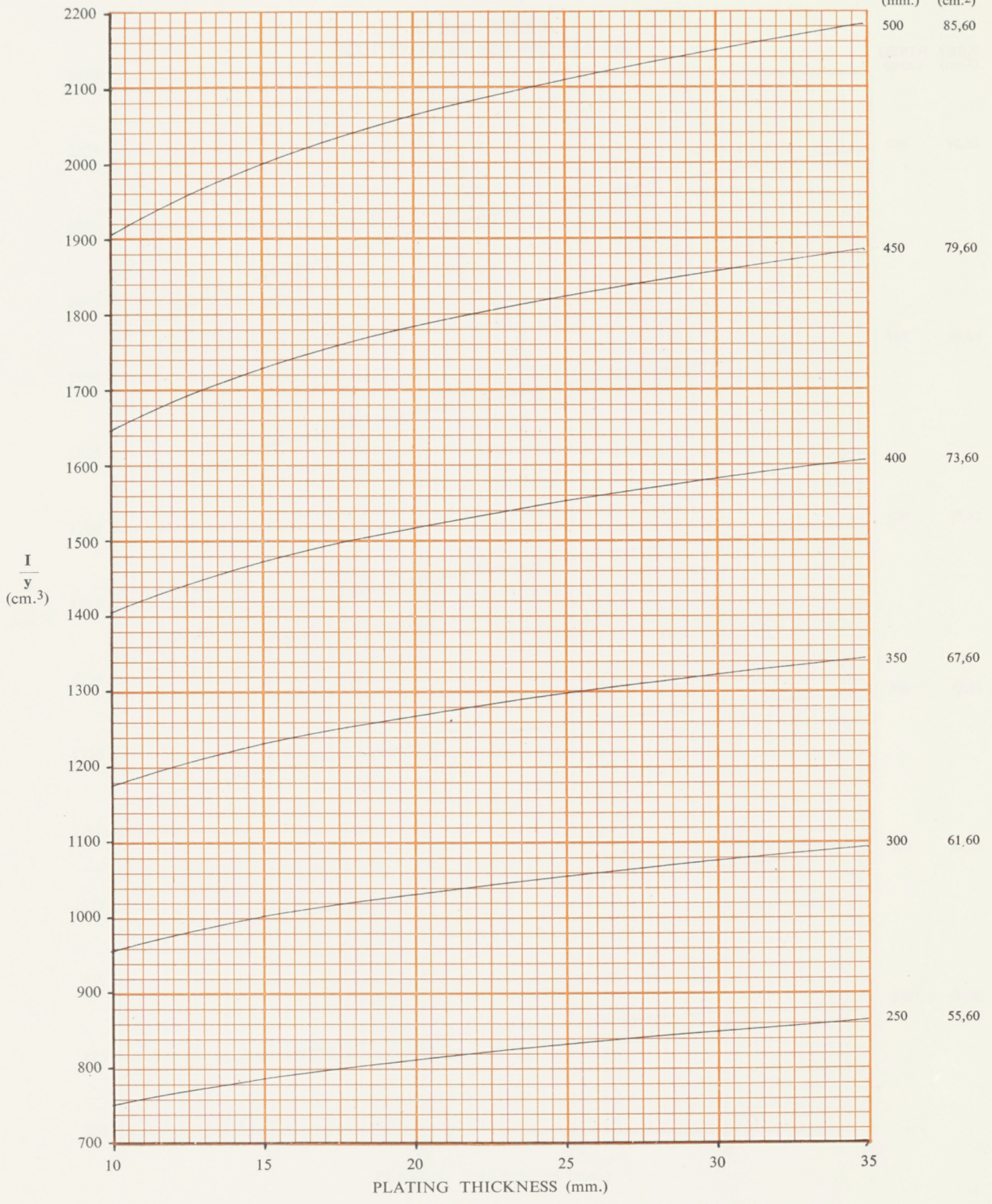
SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



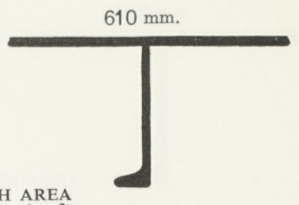
12 mm. THICK

(CUT FROM PEINER PROFILE 748)



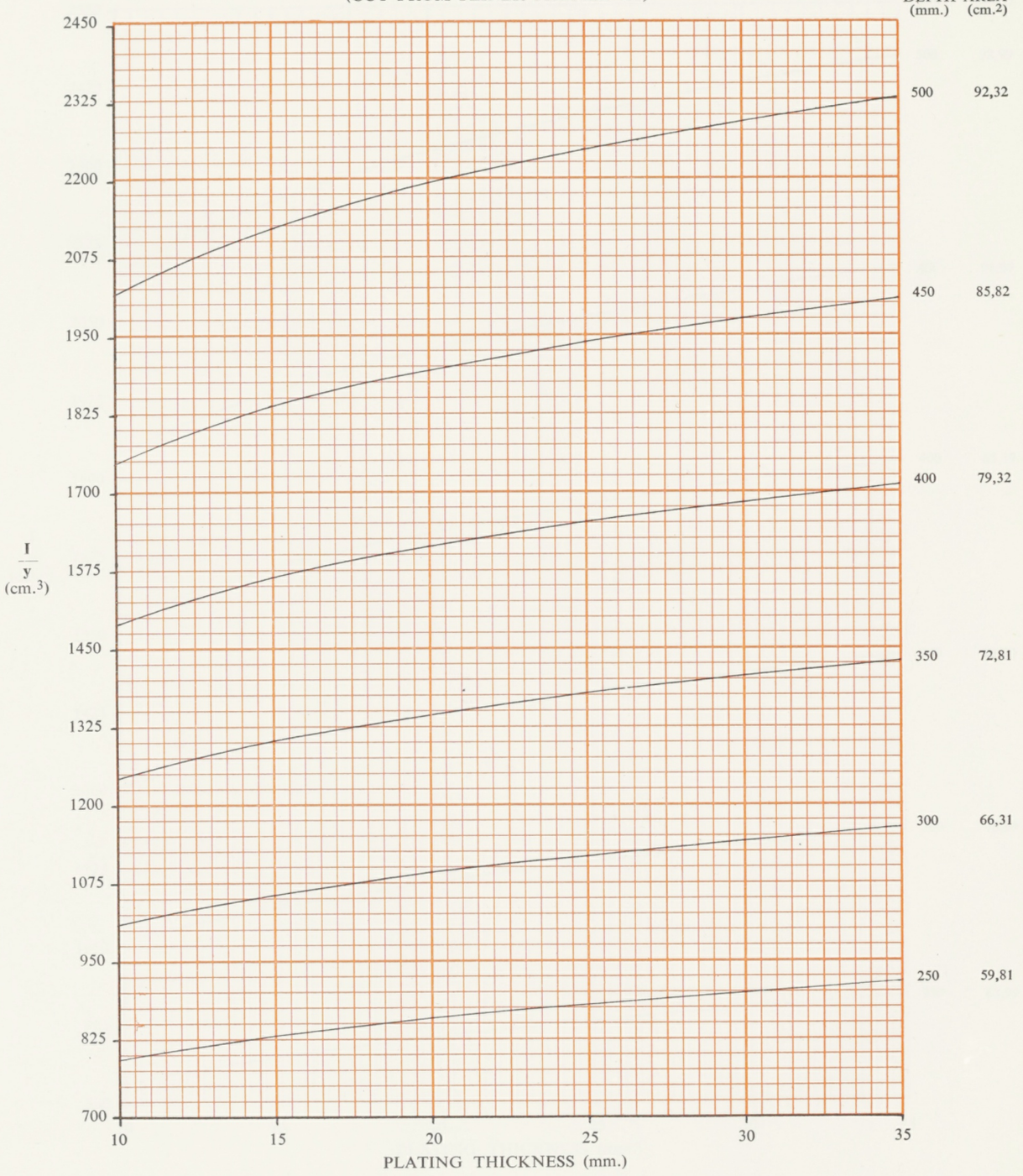
SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



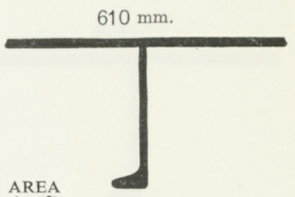
13 mm. THICK

(CUT FROM PEINER PROFILE 752)



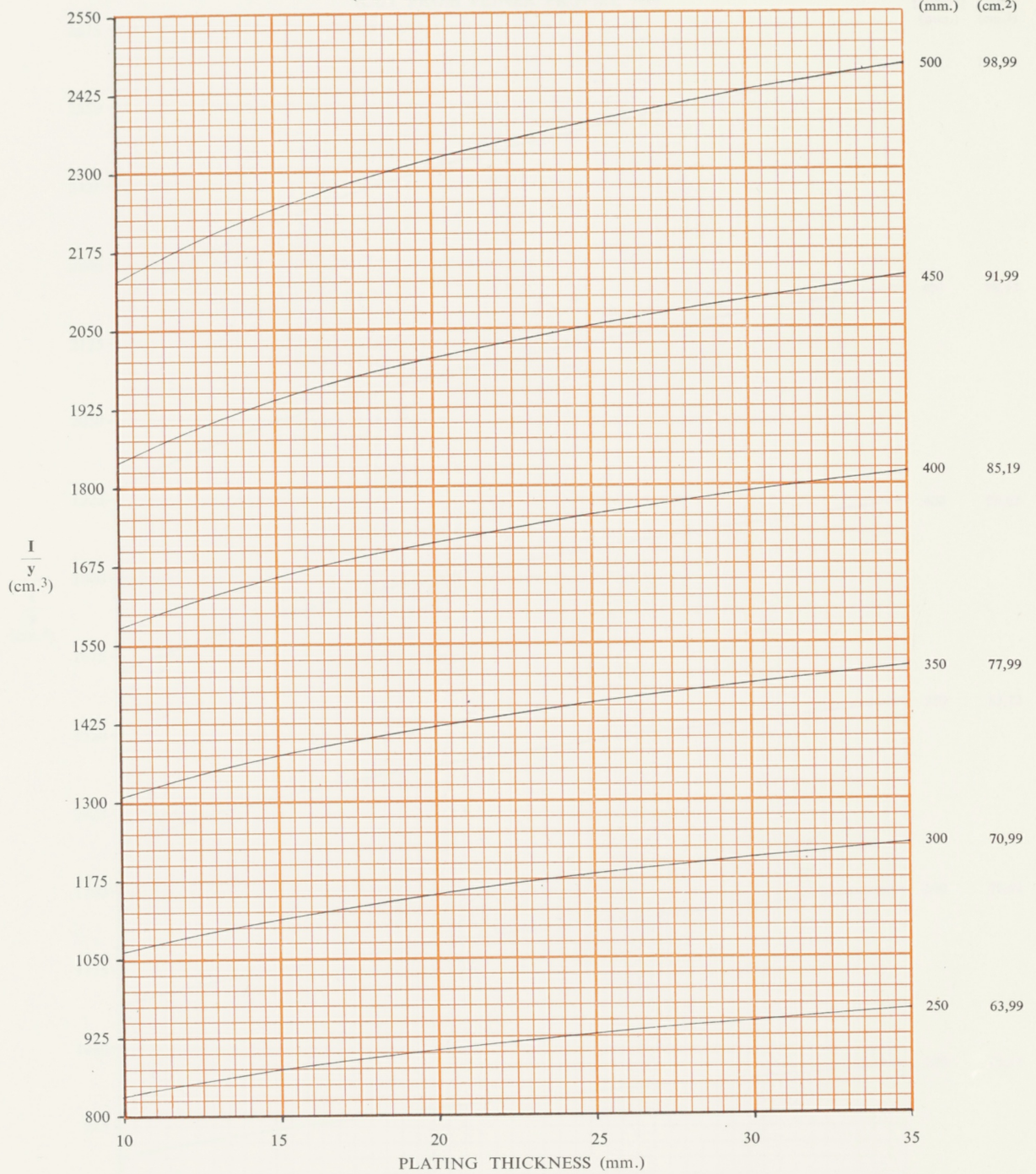
SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



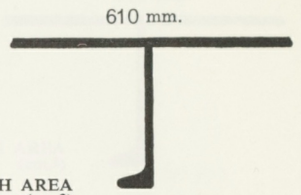
14 mm. THICK

(CUT FROM PEINER PROFILE 756)



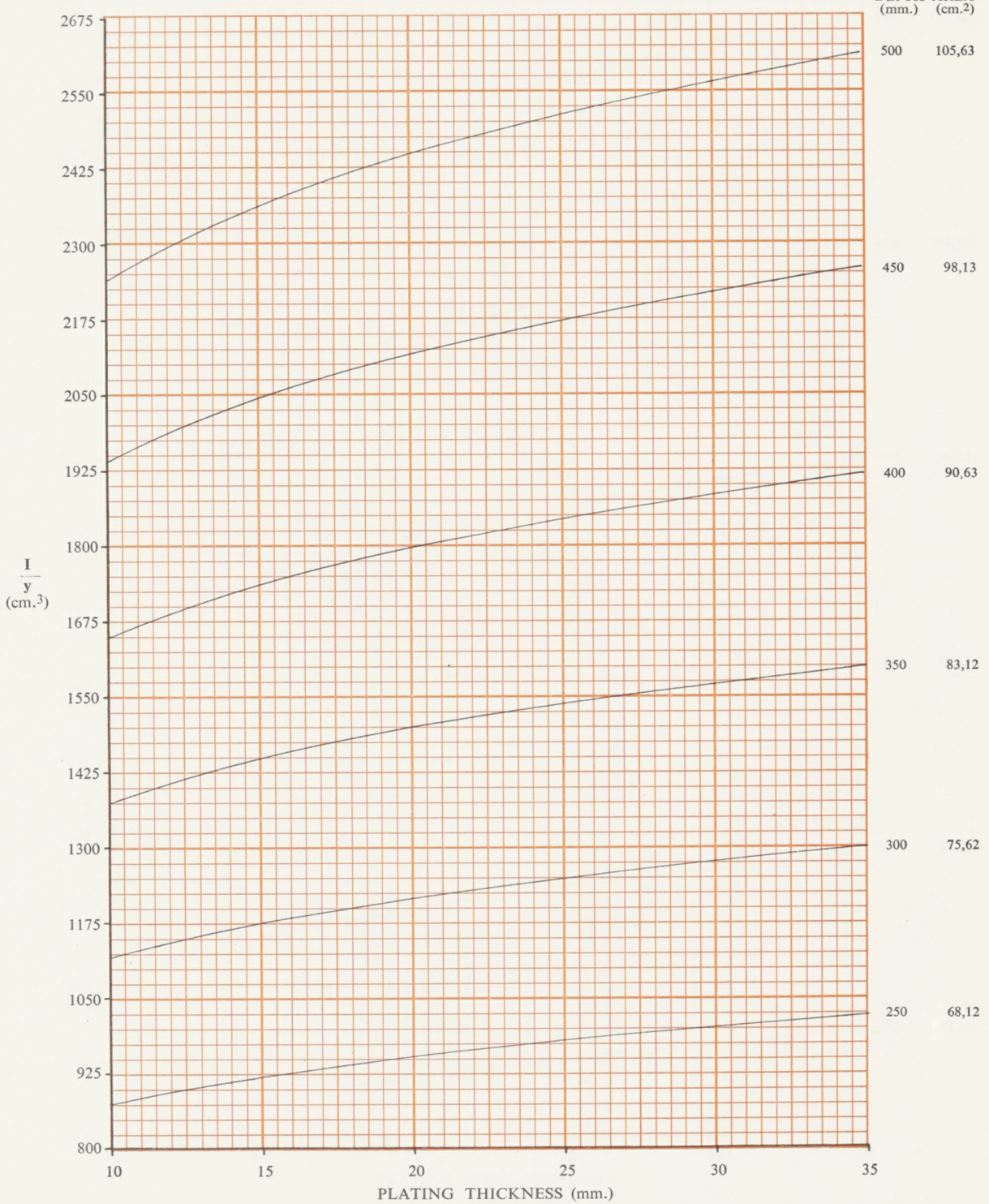
SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



15 mm. THICK

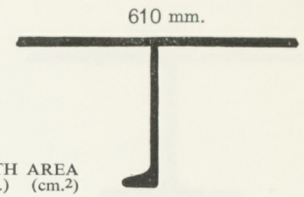
(CUT FROM PEINER PROFILE 760)



DEPTH (mm.)	AREA (cm.2)
500	105,63
450	98,13
400	90,63
350	83,12
300	75,62
250	68,12

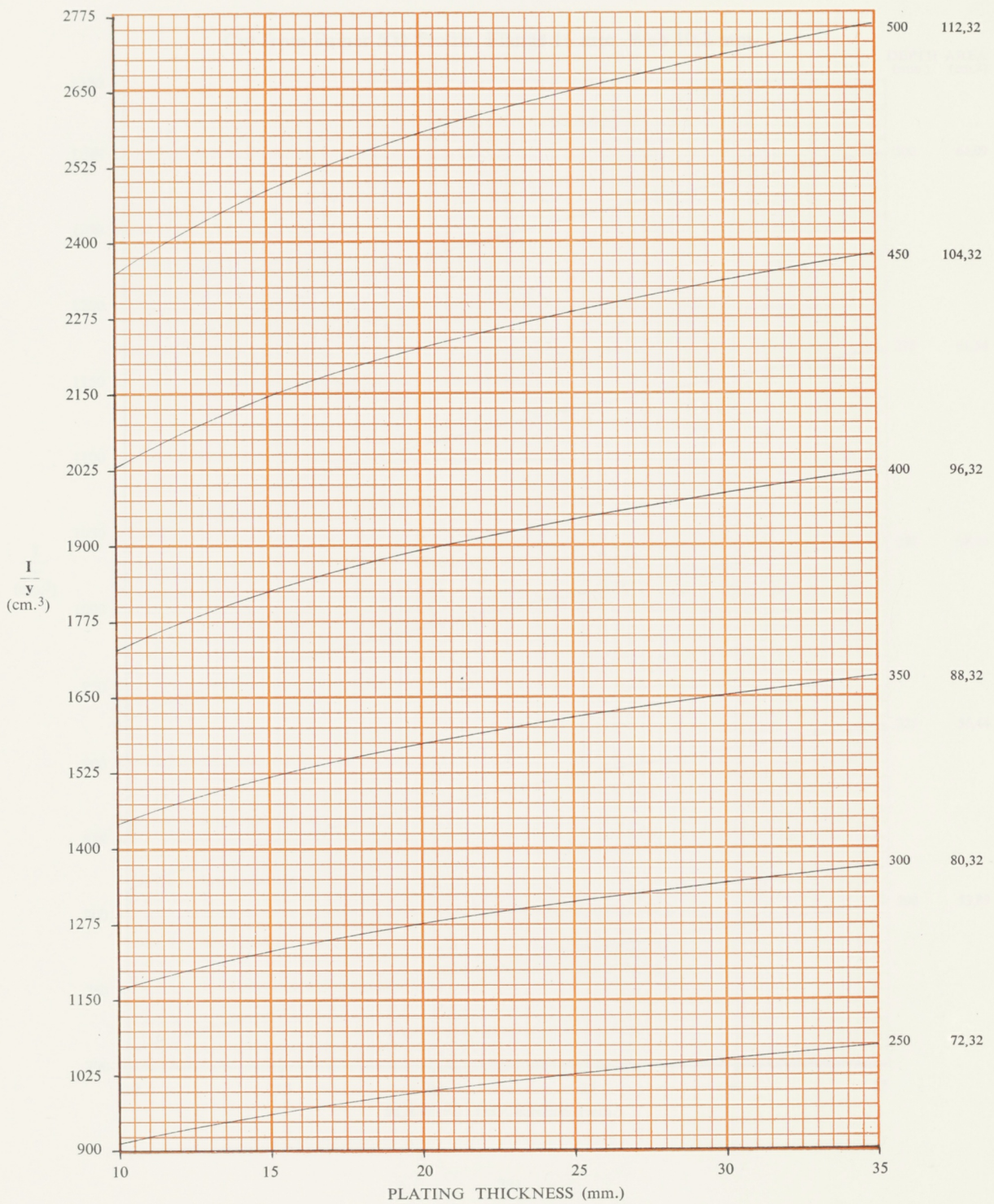
SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



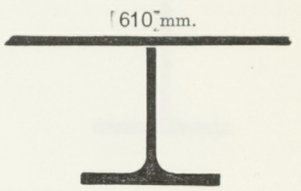
16 mm. THICK

(CUT FROM PEINER PROFILE 764)

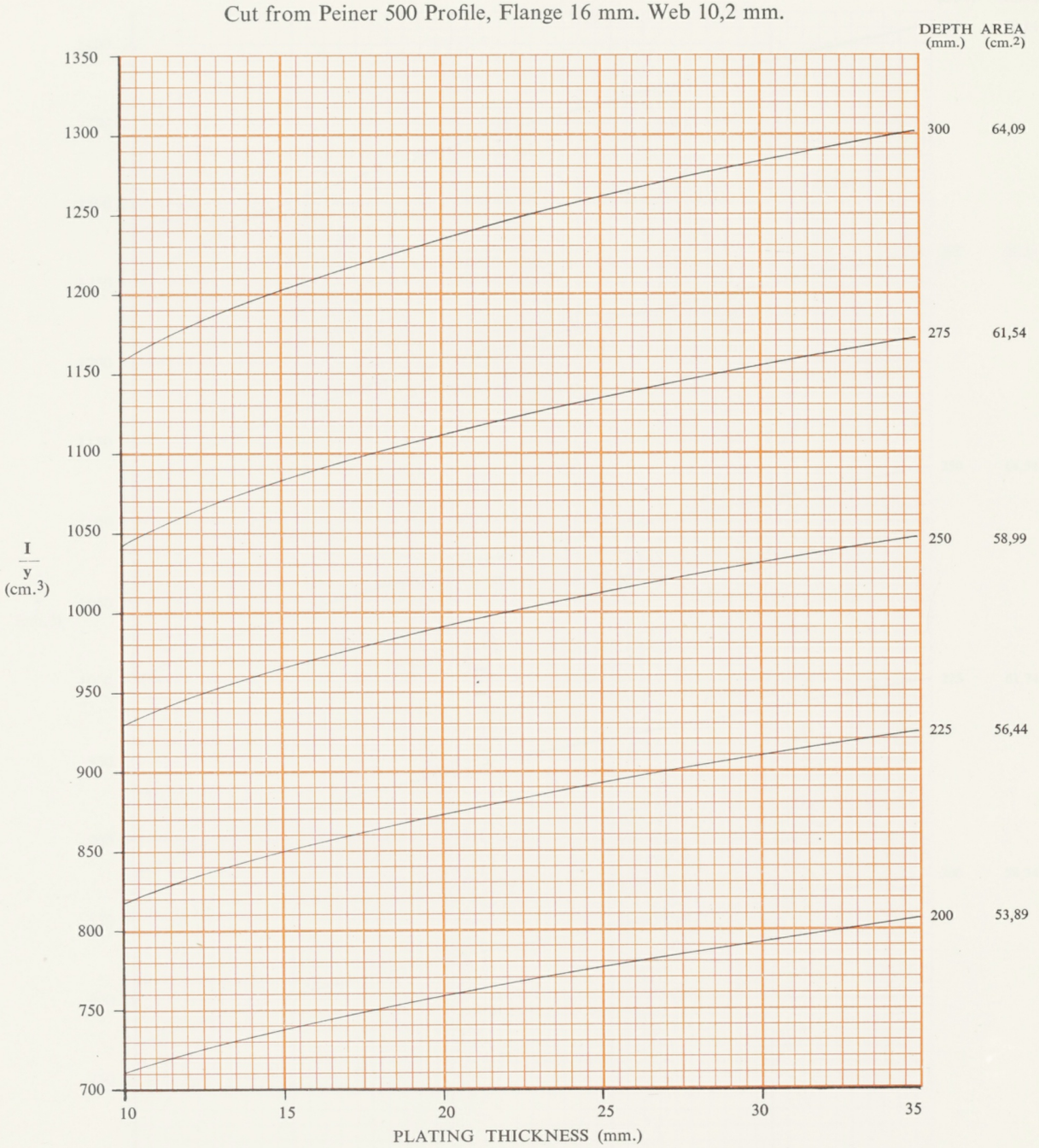


SECTION MODULUS AND AREA OF T - SECTIONS (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

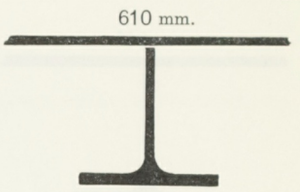


Cut from Peiner 500 Profile, Flange 16 mm. Web 10,2 mm.

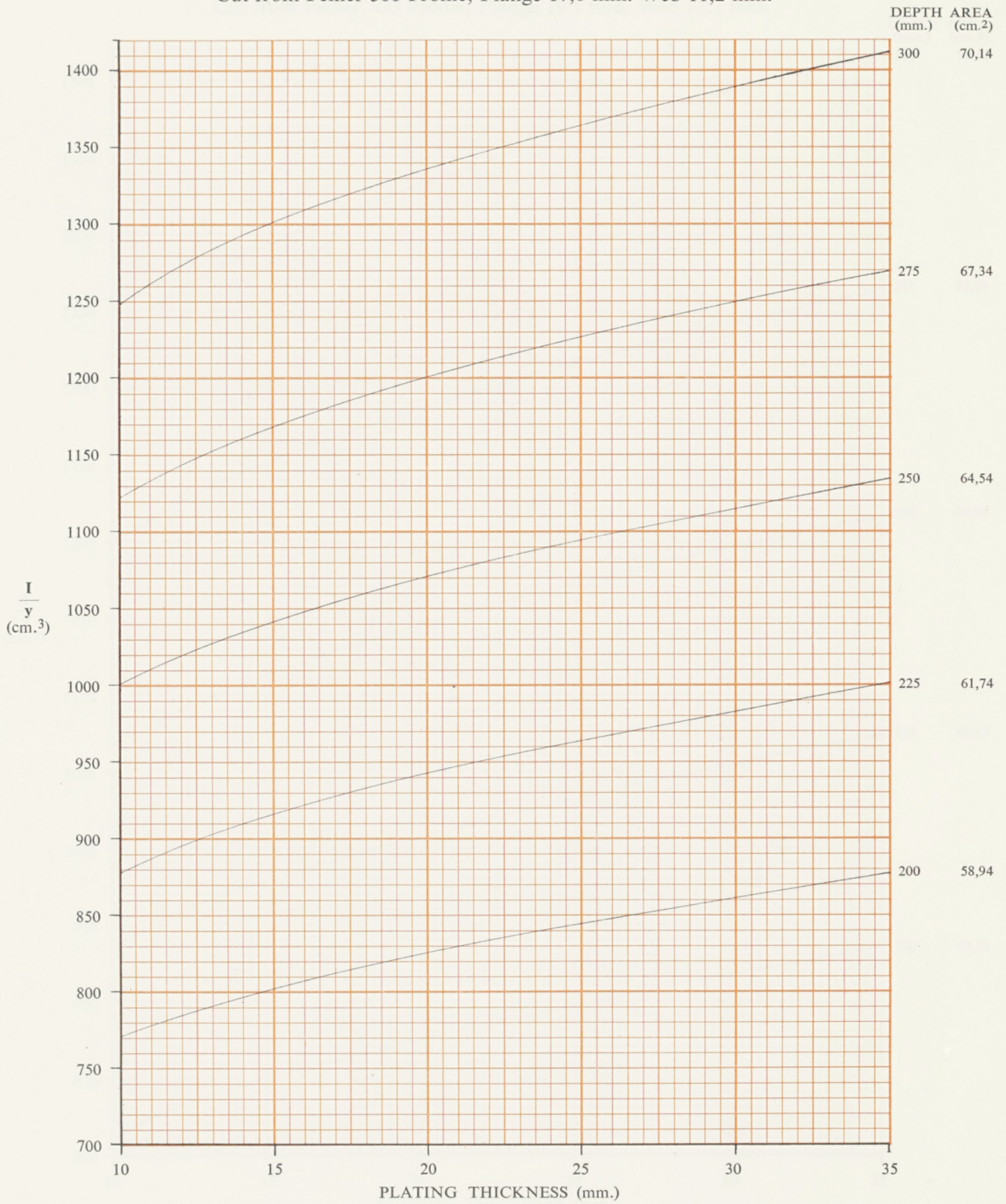


SECTION MODULUS AND AREA OF T - SECTIONS (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

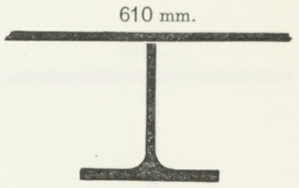


Cut from Peiner 500 Profile, Flange 17,6 mm. Web 11,2 mm.

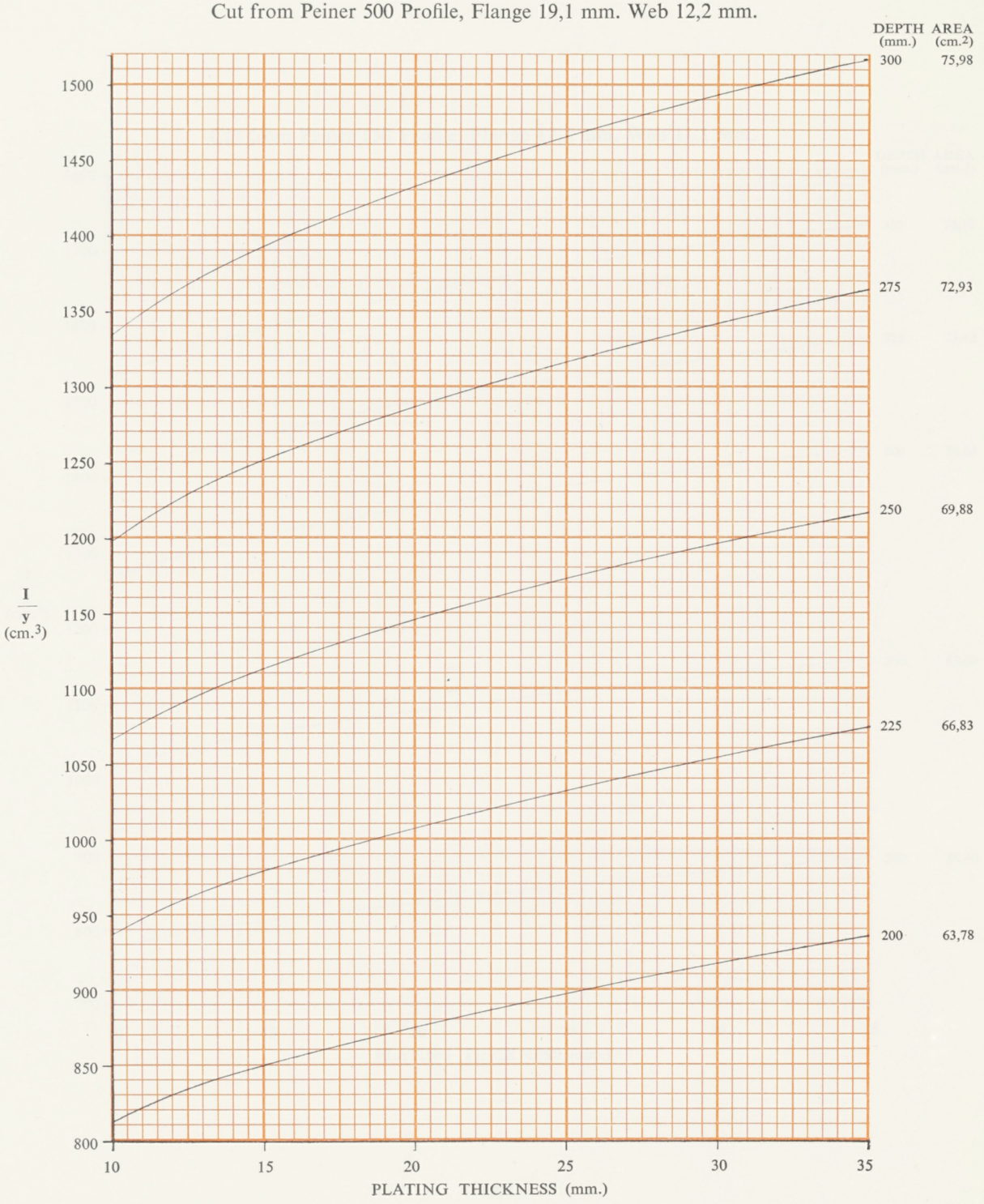


SECTION MODULUS AND AREA OF T - SECTIONS (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

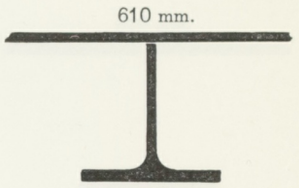


Cut from Peiner 500 Profile, Flange 19,1 mm. Web 12,2 mm.

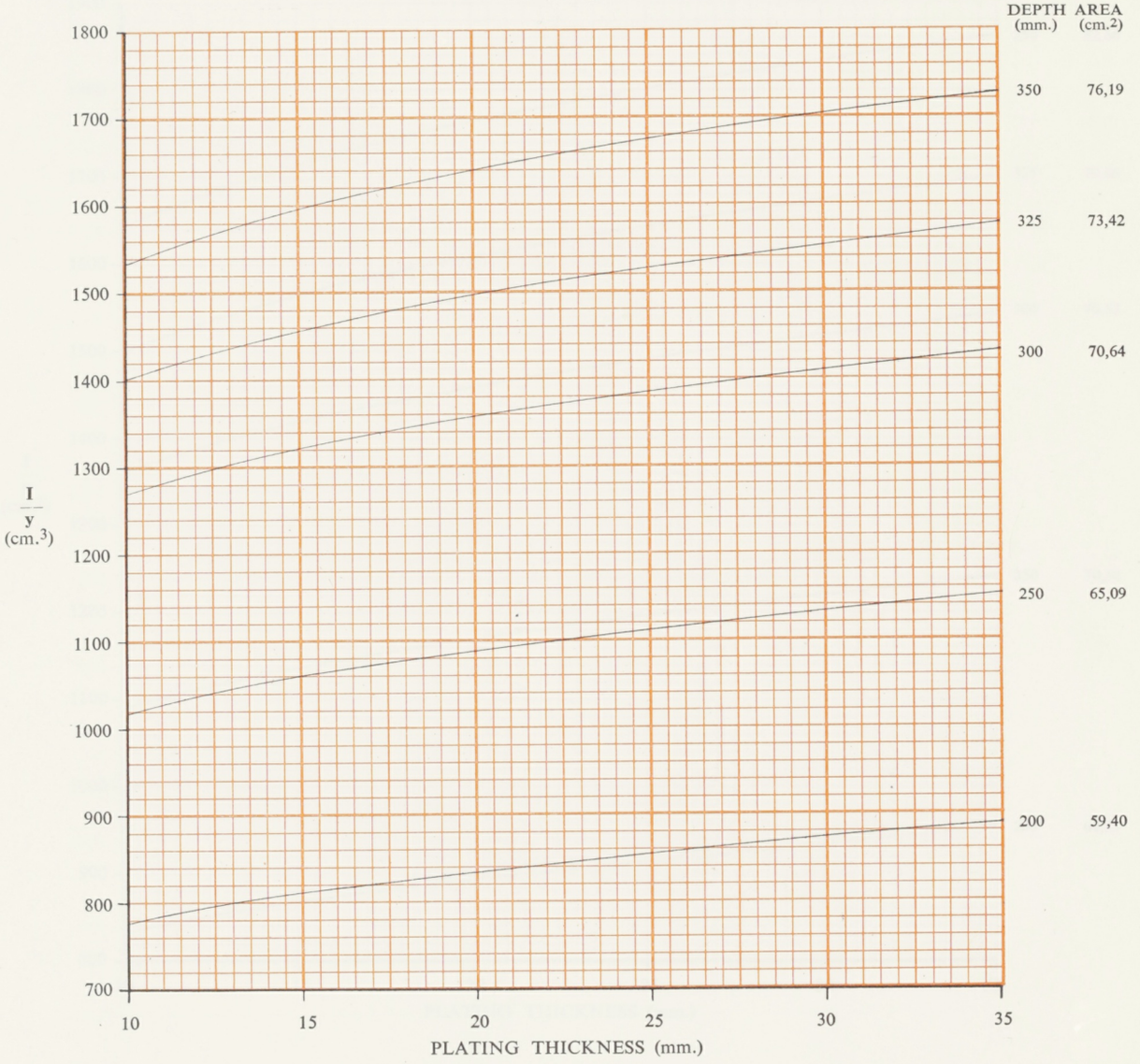


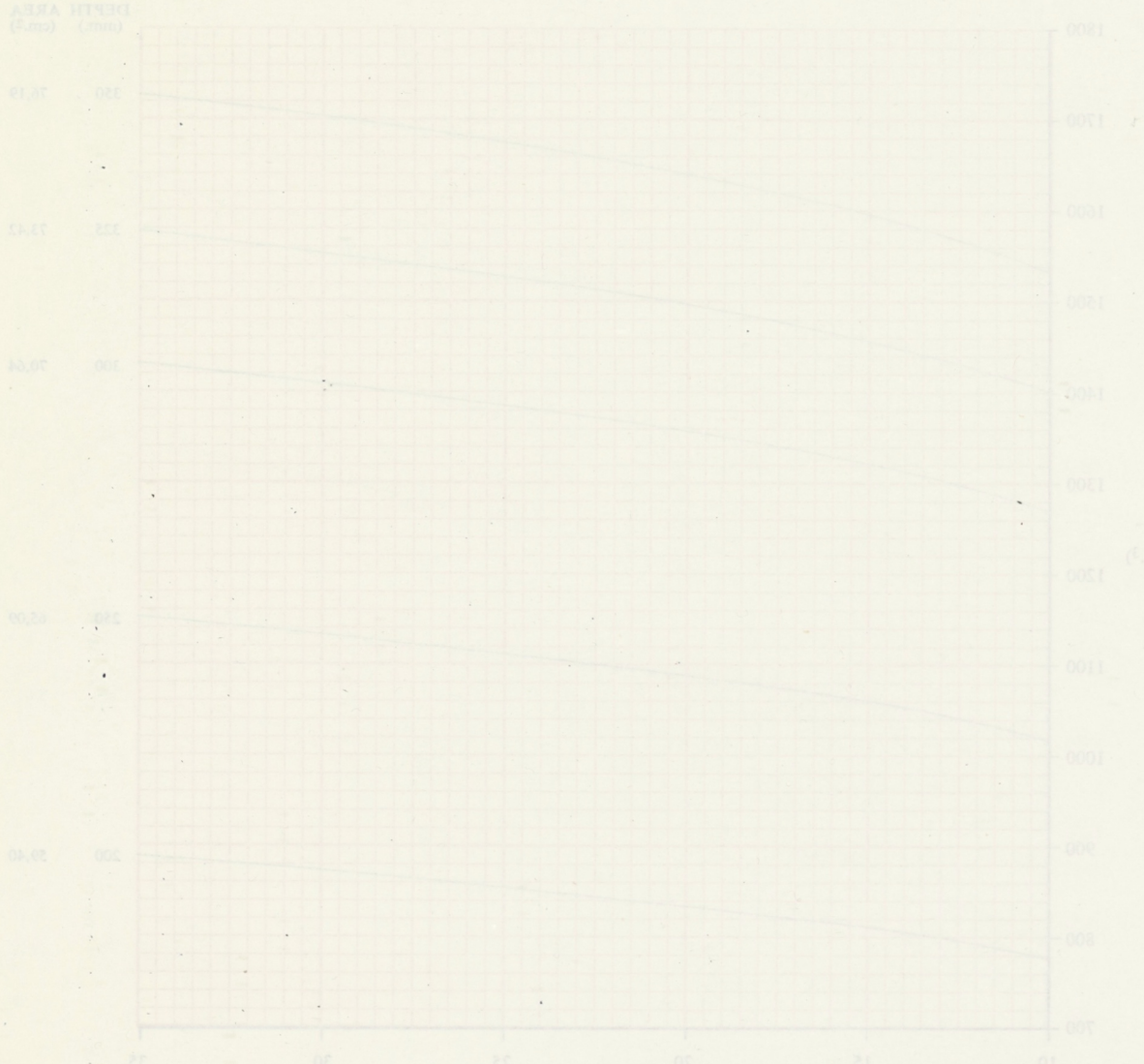
SECTION MODULUS AND AREA OF T - SECTIONS (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



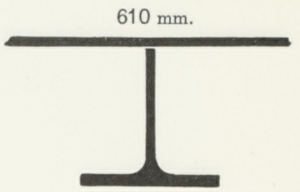
Cut from Peiner 550 Profile, Flange 17,2 mm. Web 11,1 mm.



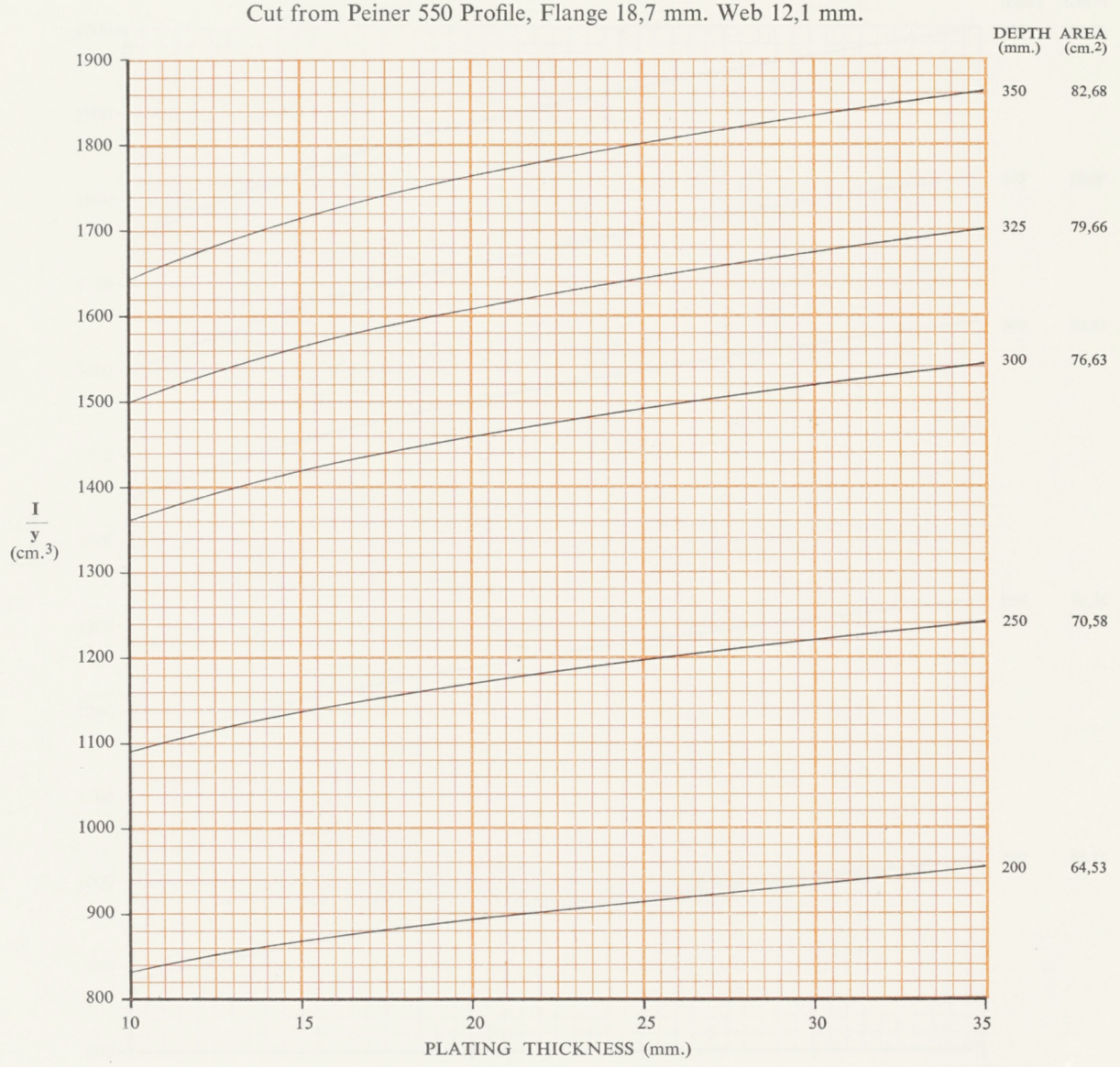


SECTION MODULUS AND AREA OF T - SECTIONS (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

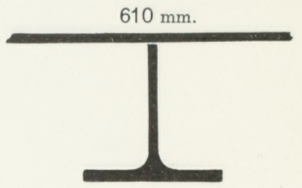


Cut from Peiner 550 Profile, Flange 18,7 mm. Web 12,1 mm.

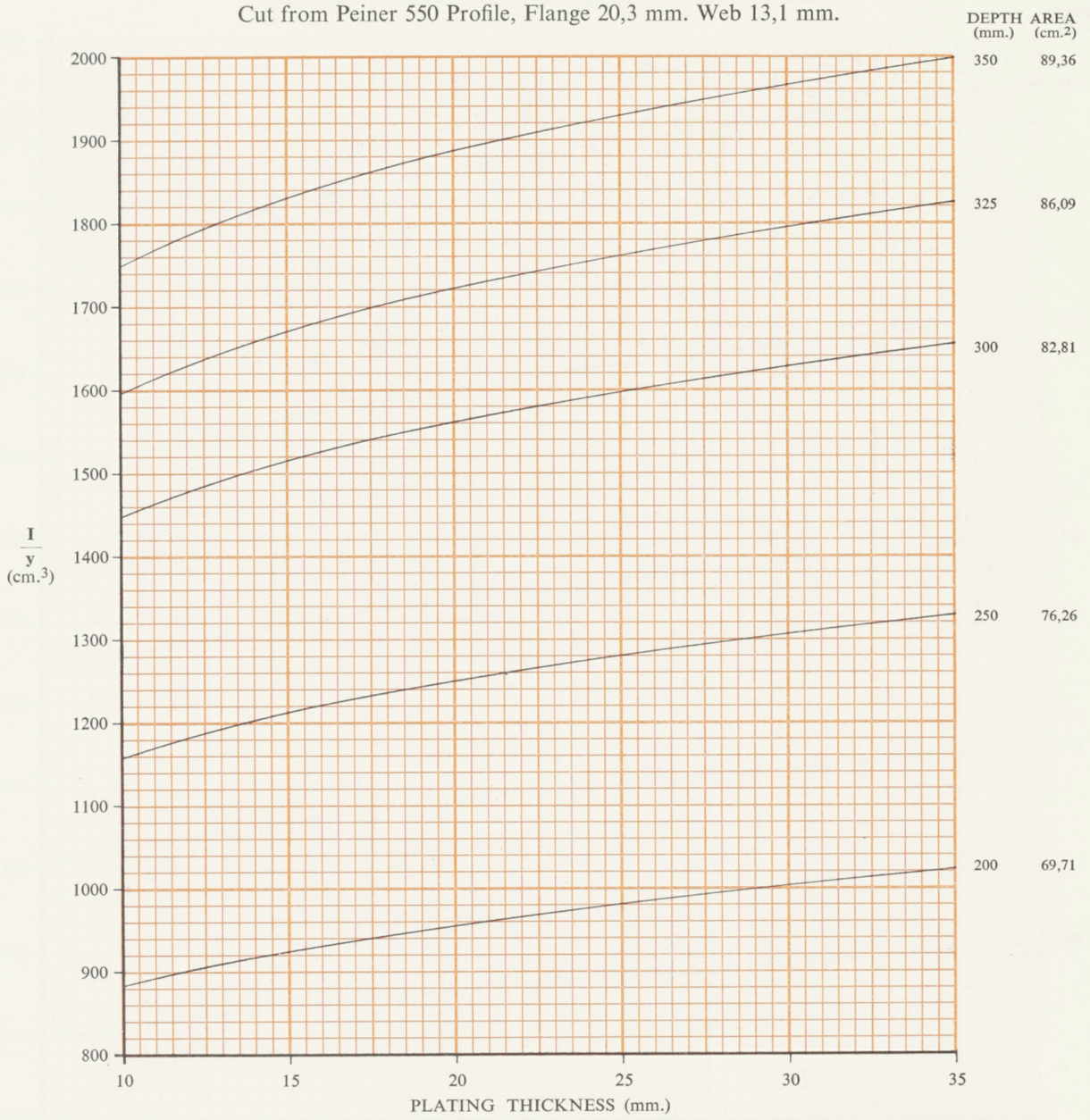


SECTION MODULUS AND AREA OF T - SECTIONS (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

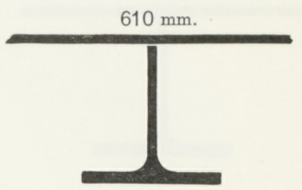


Cut from Peiner 550 Profile, Flange 20,3 mm. Web 13,1 mm.

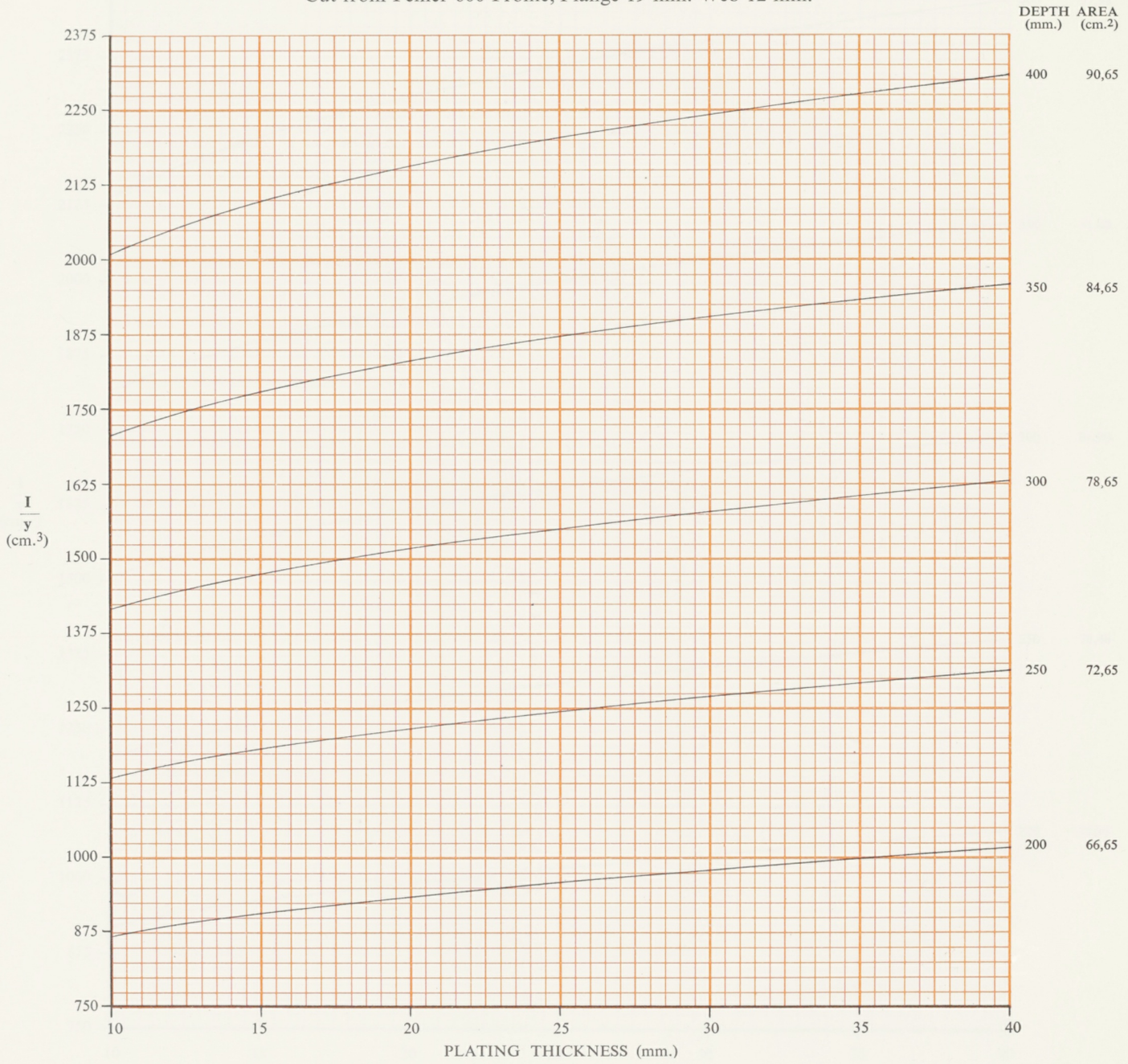


SECTION MODULUS AND AREA OF T - SECTIONS (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

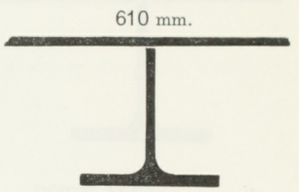


Cut from Peiner 600 Profile, Flange 19 mm. Web 12 mm.

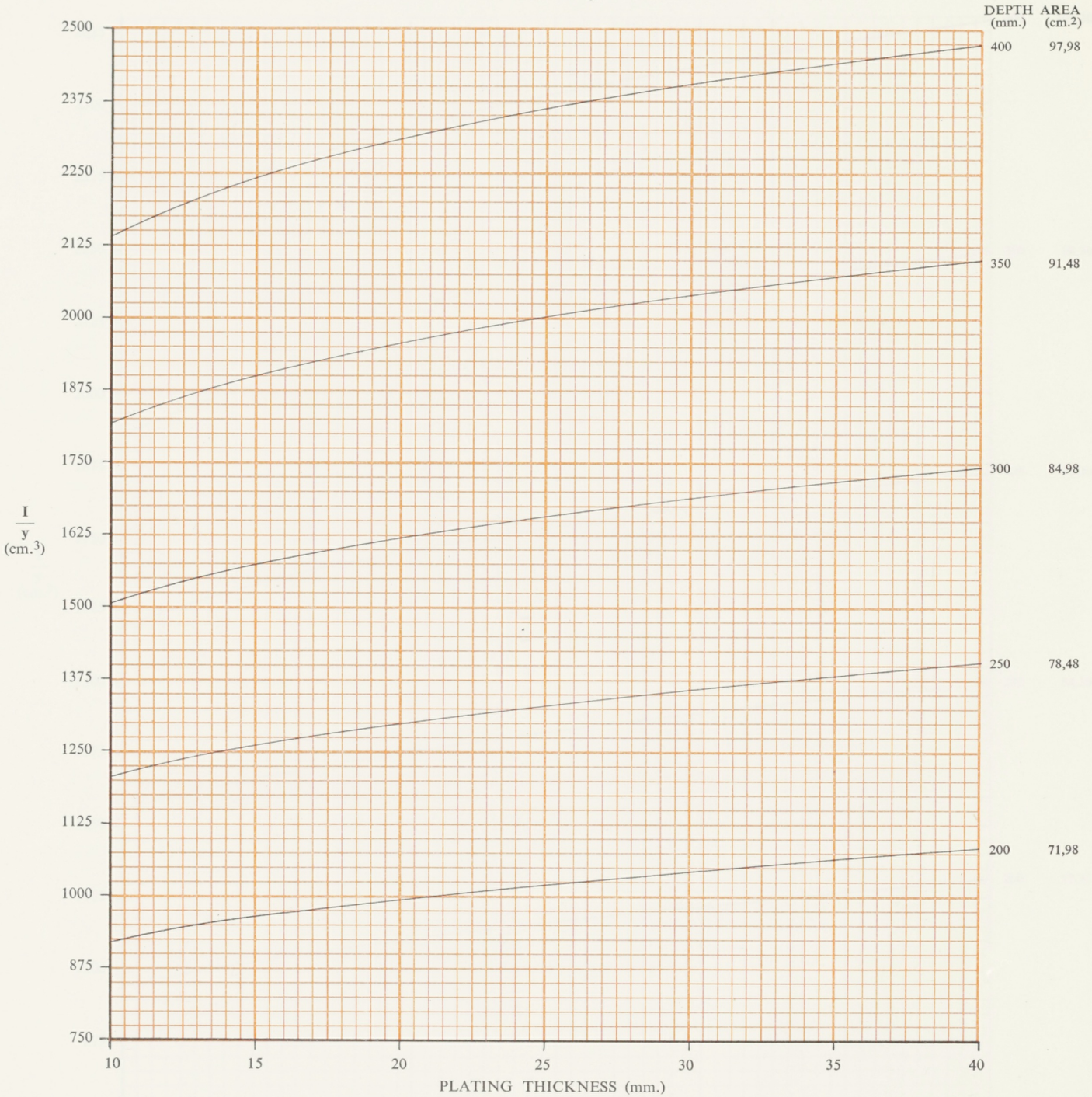


SECTION MODULUS AND AREA OF T - SECTIONS (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

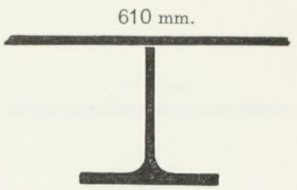


Cut from Peiner 600 Profile, Flange 20,6 mm. Web 13 mm.

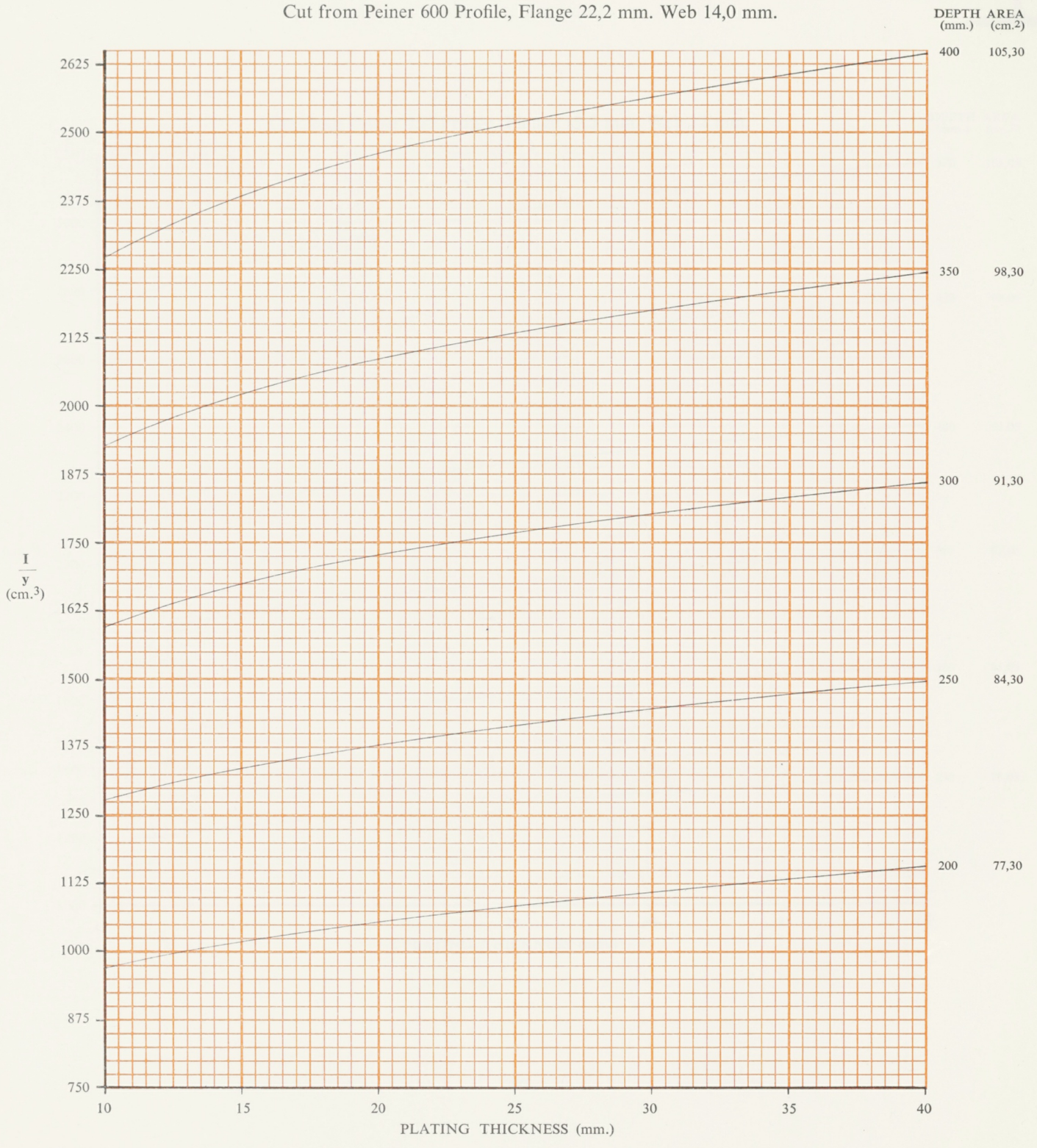


SECTION MODULUS AND AREA OF T - SECTIONS (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



Cut from Peiner 600 Profile, Flange 22,2 mm. Web 14,0 mm.



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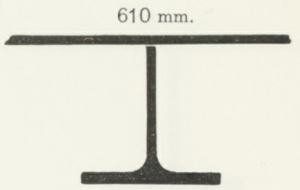
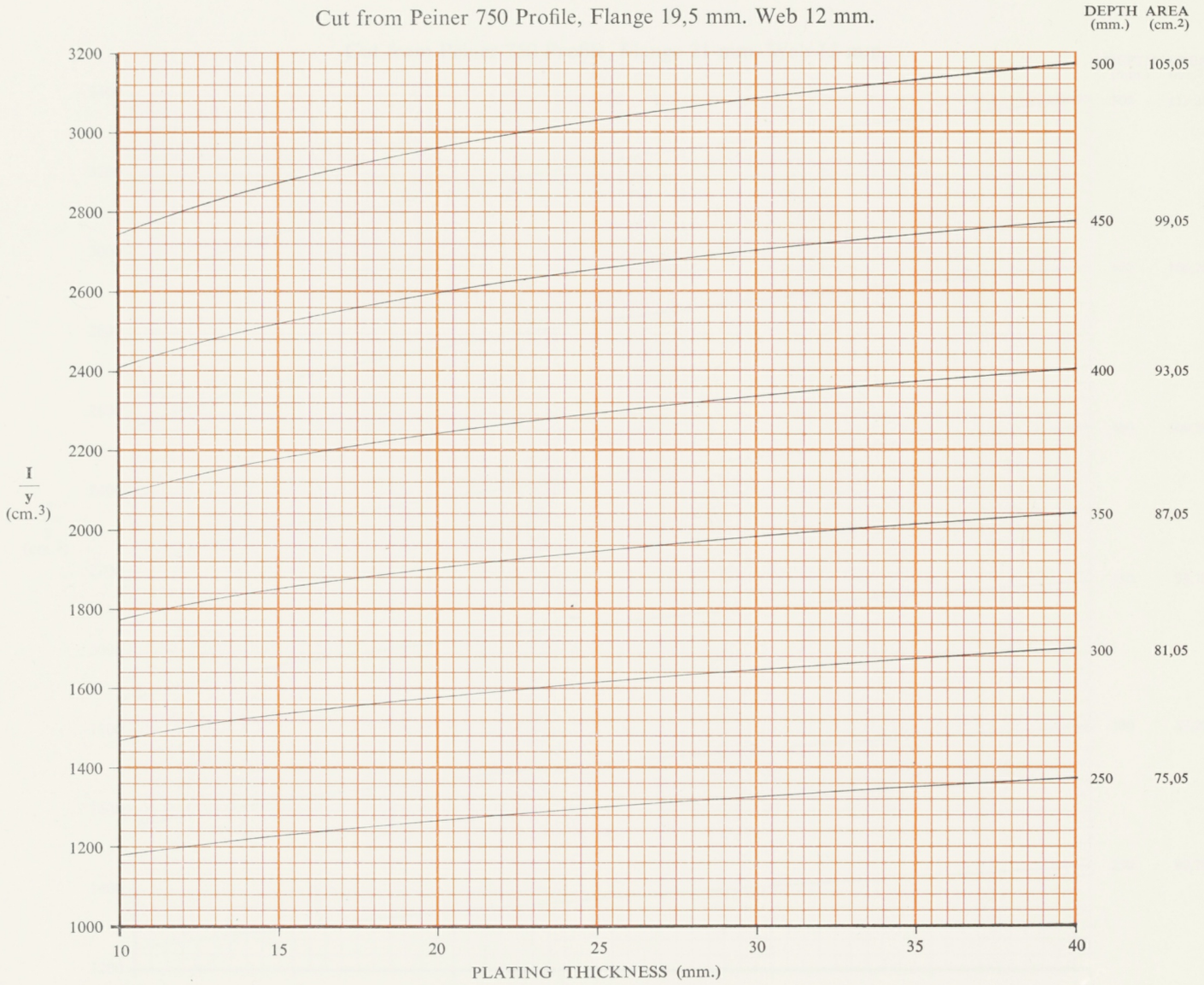
SECTION MODULUS AND AREA OF T - SECTIONS (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

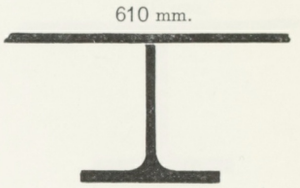


Cut from Peiner 750 Profile, Flange 19,5 mm. Web 12 mm.

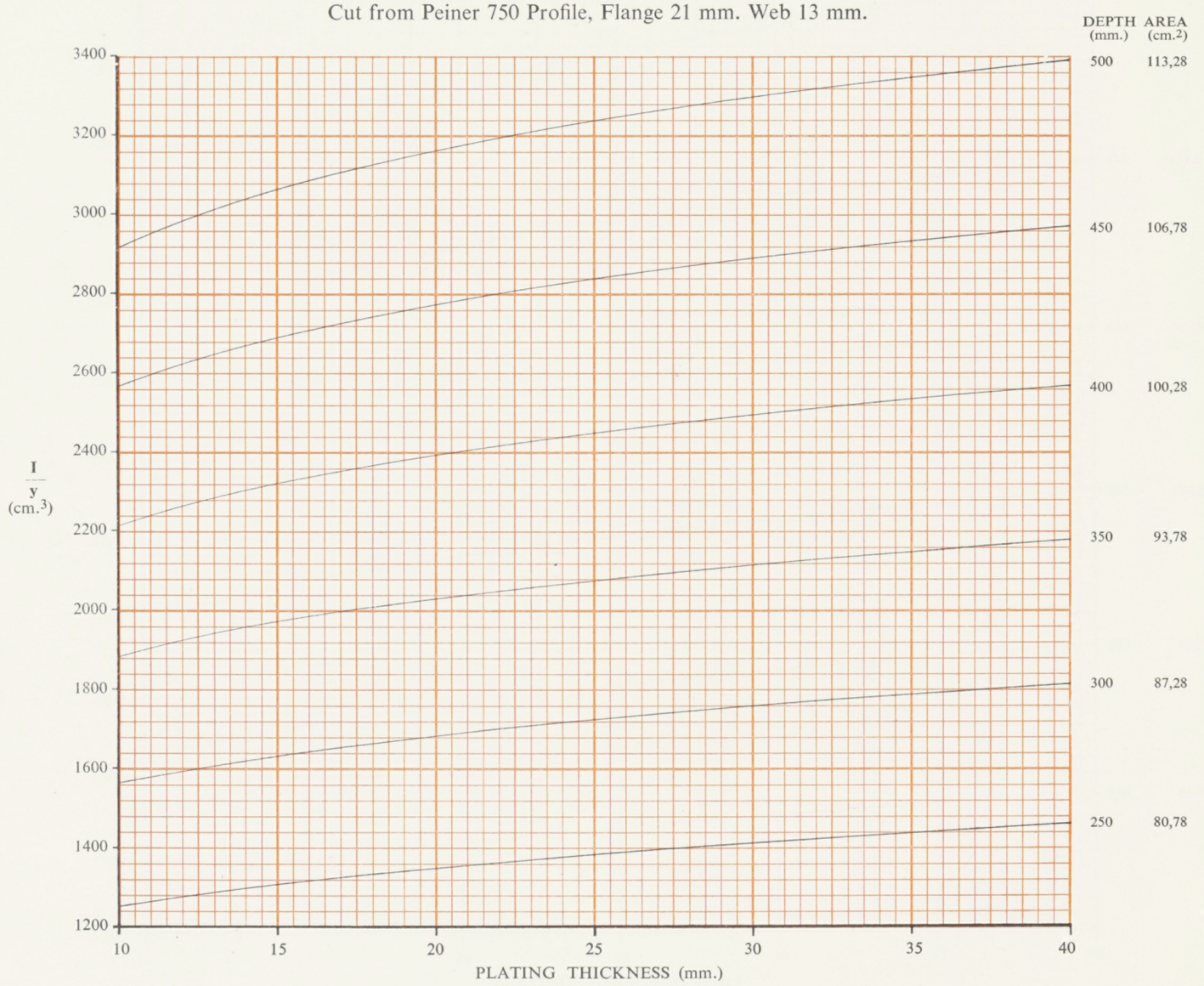


SECTION MODULUS AND AREA OF T - SECTIONS (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

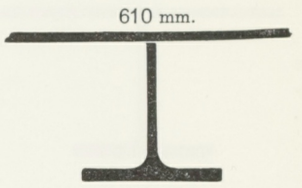


Cut from Peiner 750 Profile, Flange 21 mm. Web 13 mm.

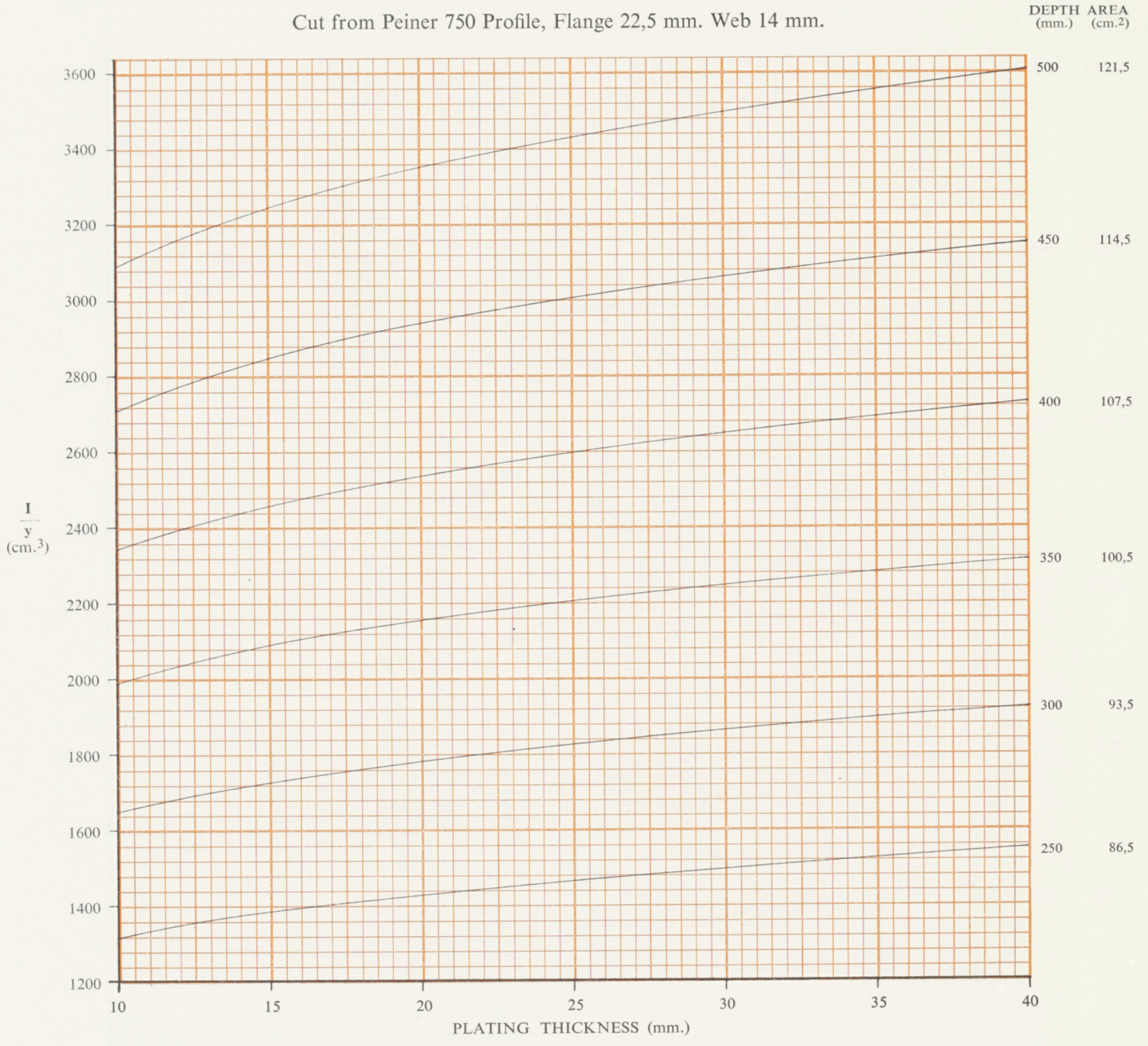


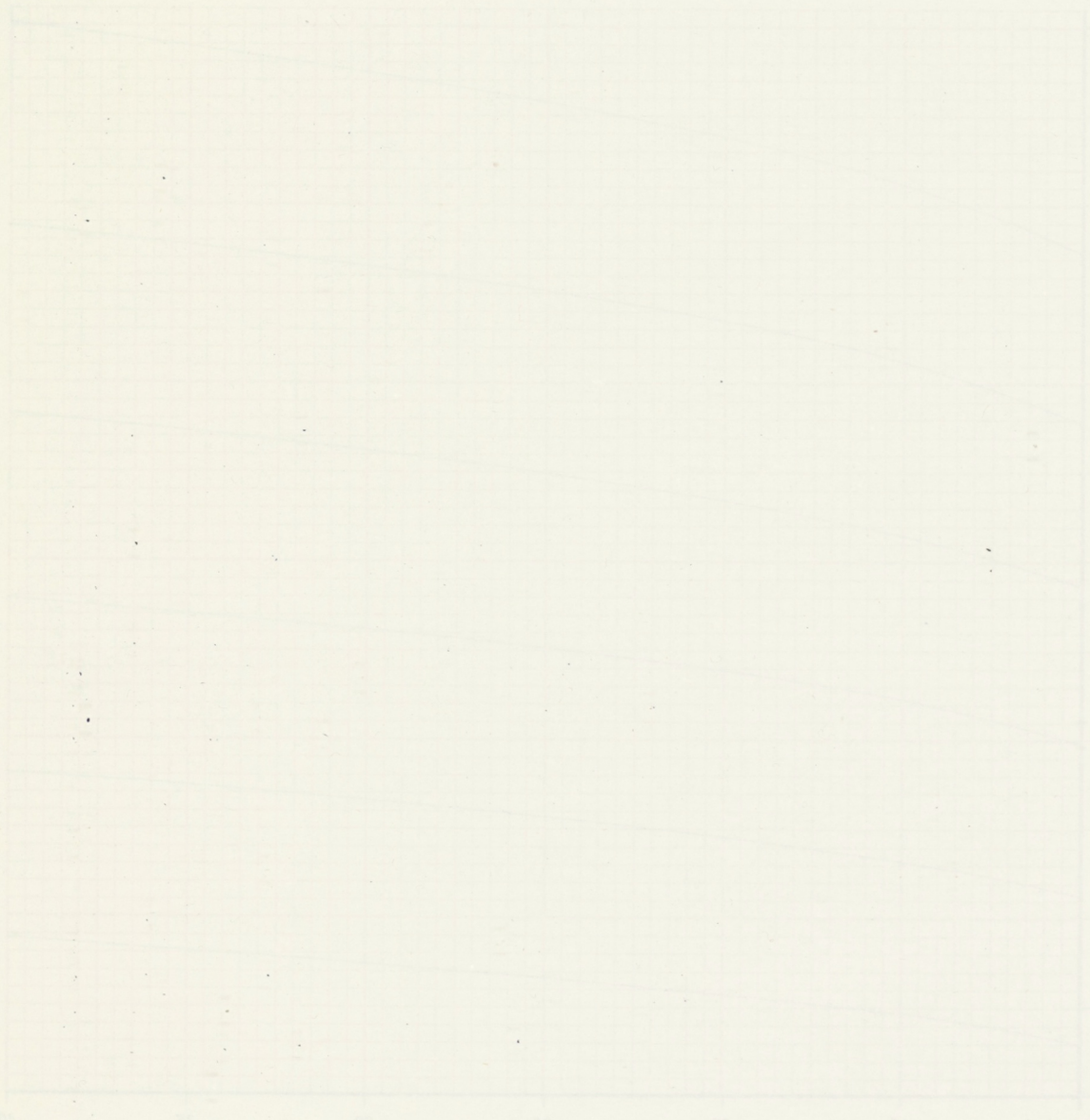
SECTION MODULUS AND AREA OF T - SECTIONS (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



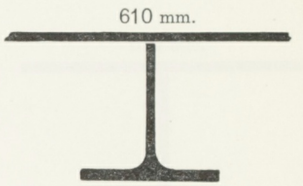
Cut from Peiner 750 Profile, Flange 22,5 mm. Web 14 mm.





SECTION MODULUS AND AREA OF T - SECTIONS (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



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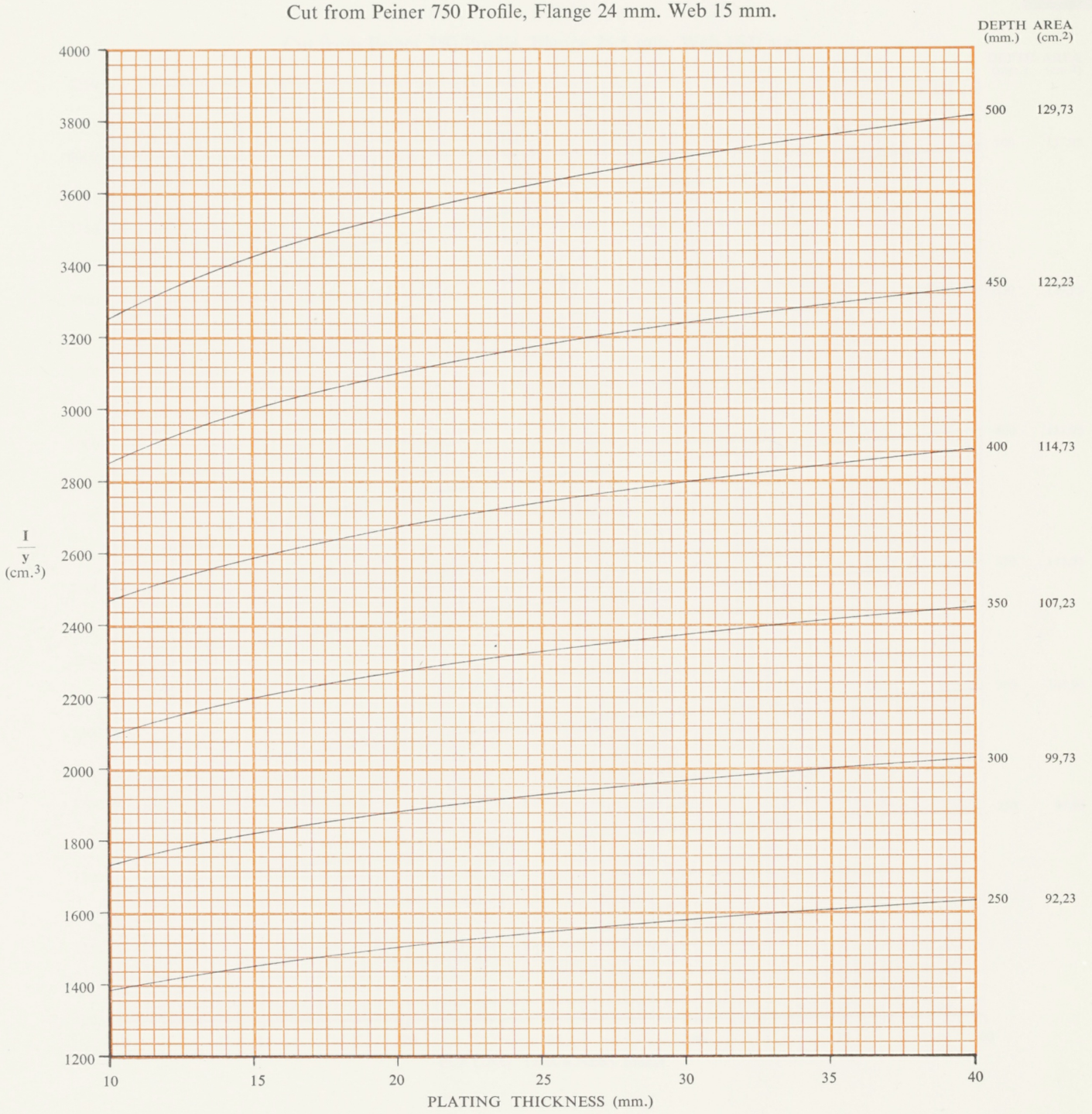
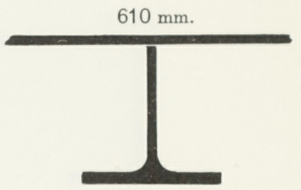


SECTION MODULUS AND AREA OF T - SECTIONS (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



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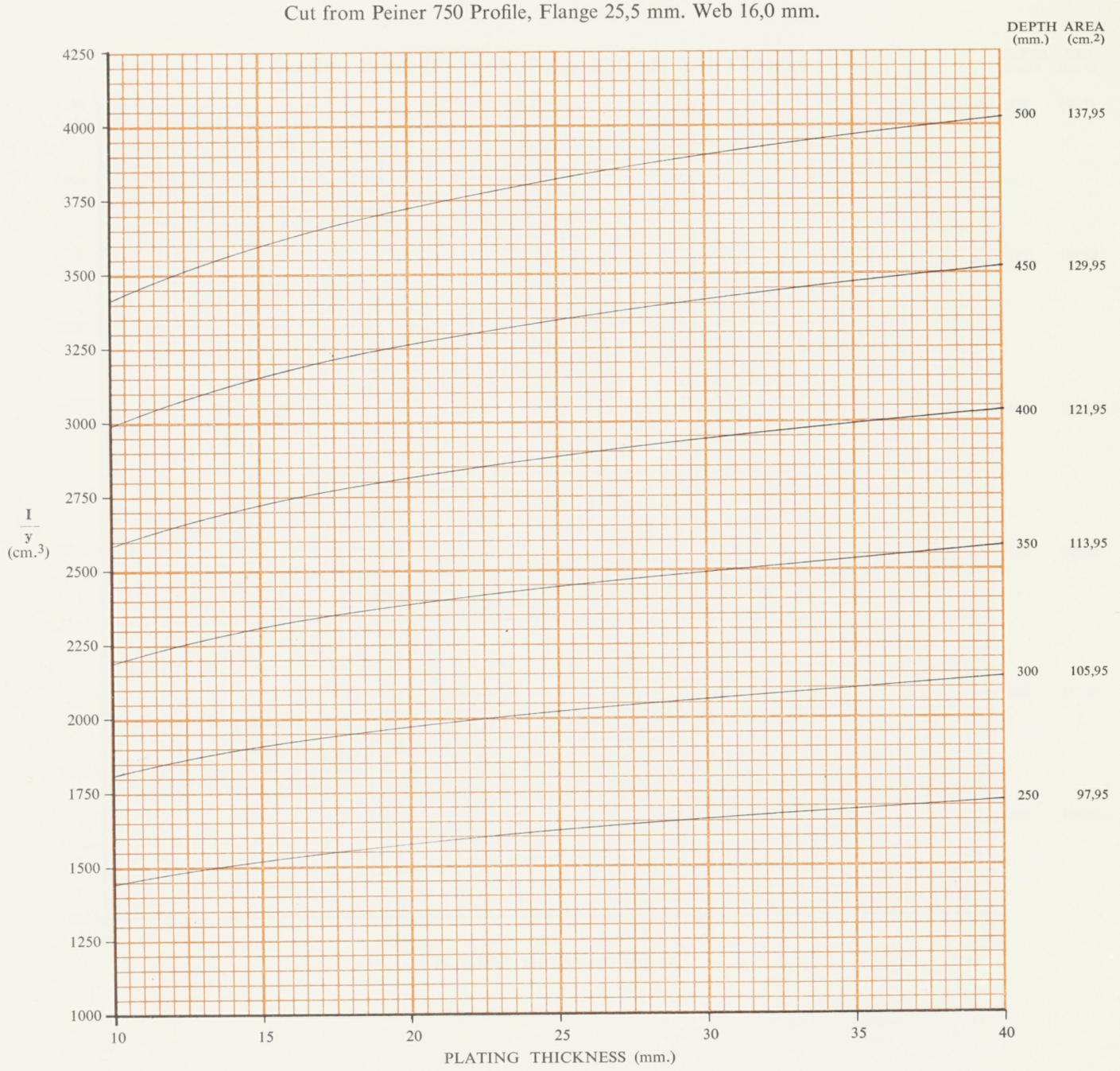
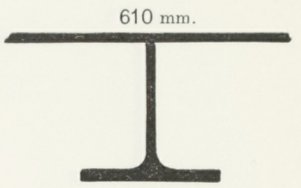


SECTION MODULUS AND AREA OF T - SECTIONS (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



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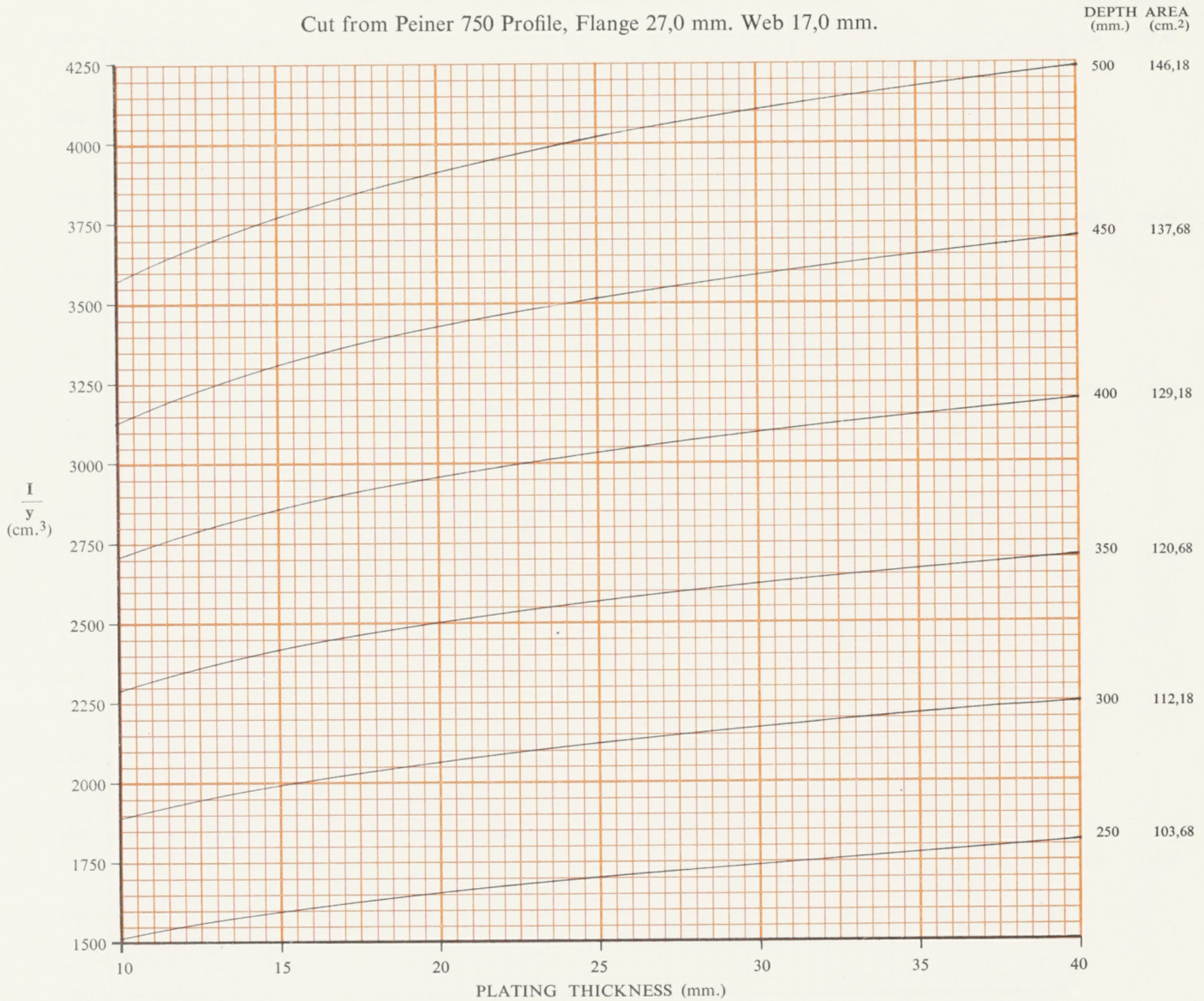
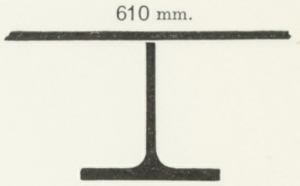
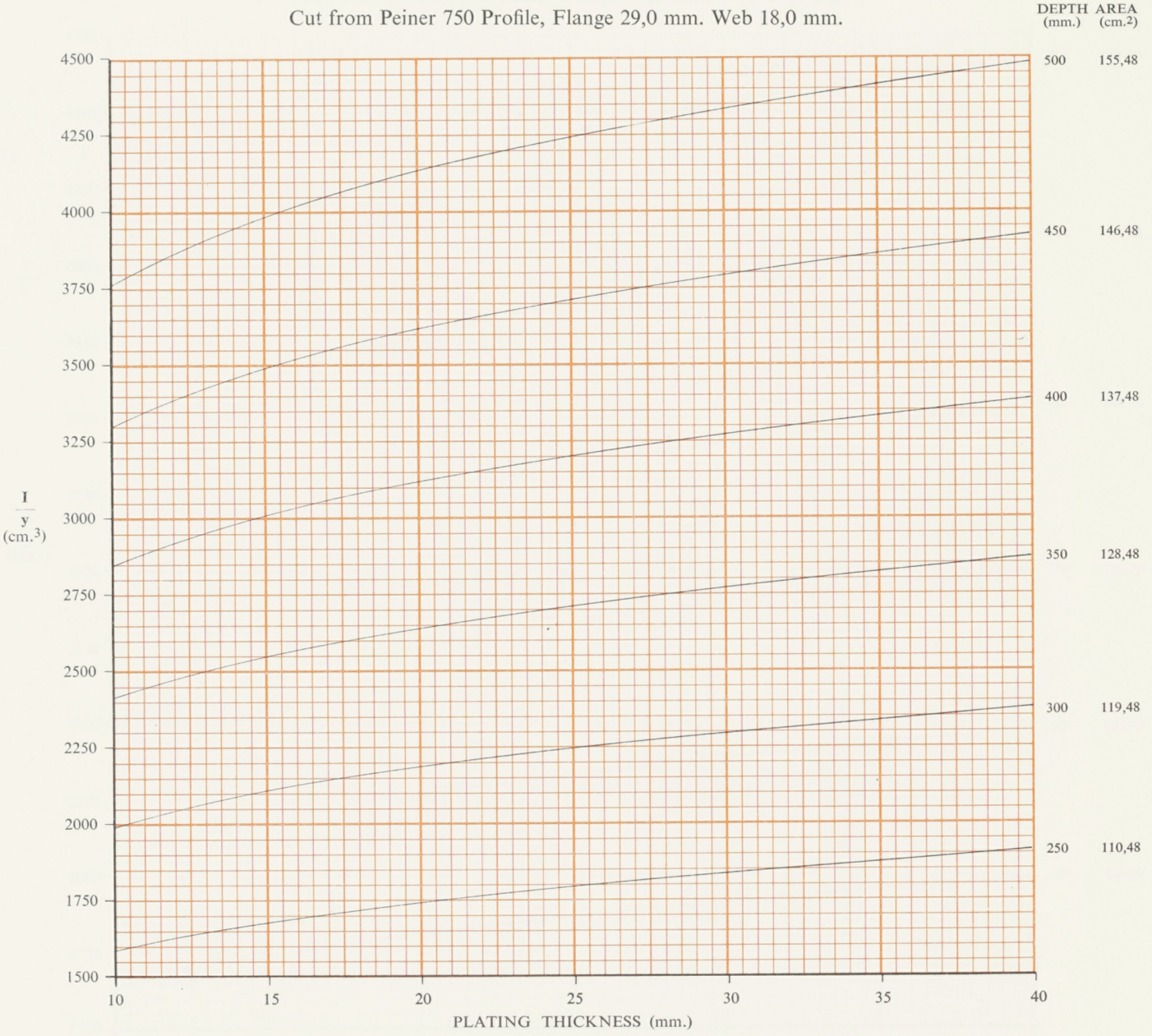


SECTION MODULUS AND AREA OF T - SECTIONS (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

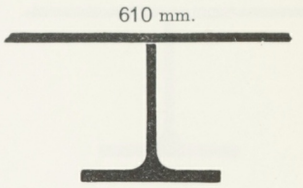


Cut from Peiner 750 Profile, Flange 29,0 mm. Web 18,0 mm.

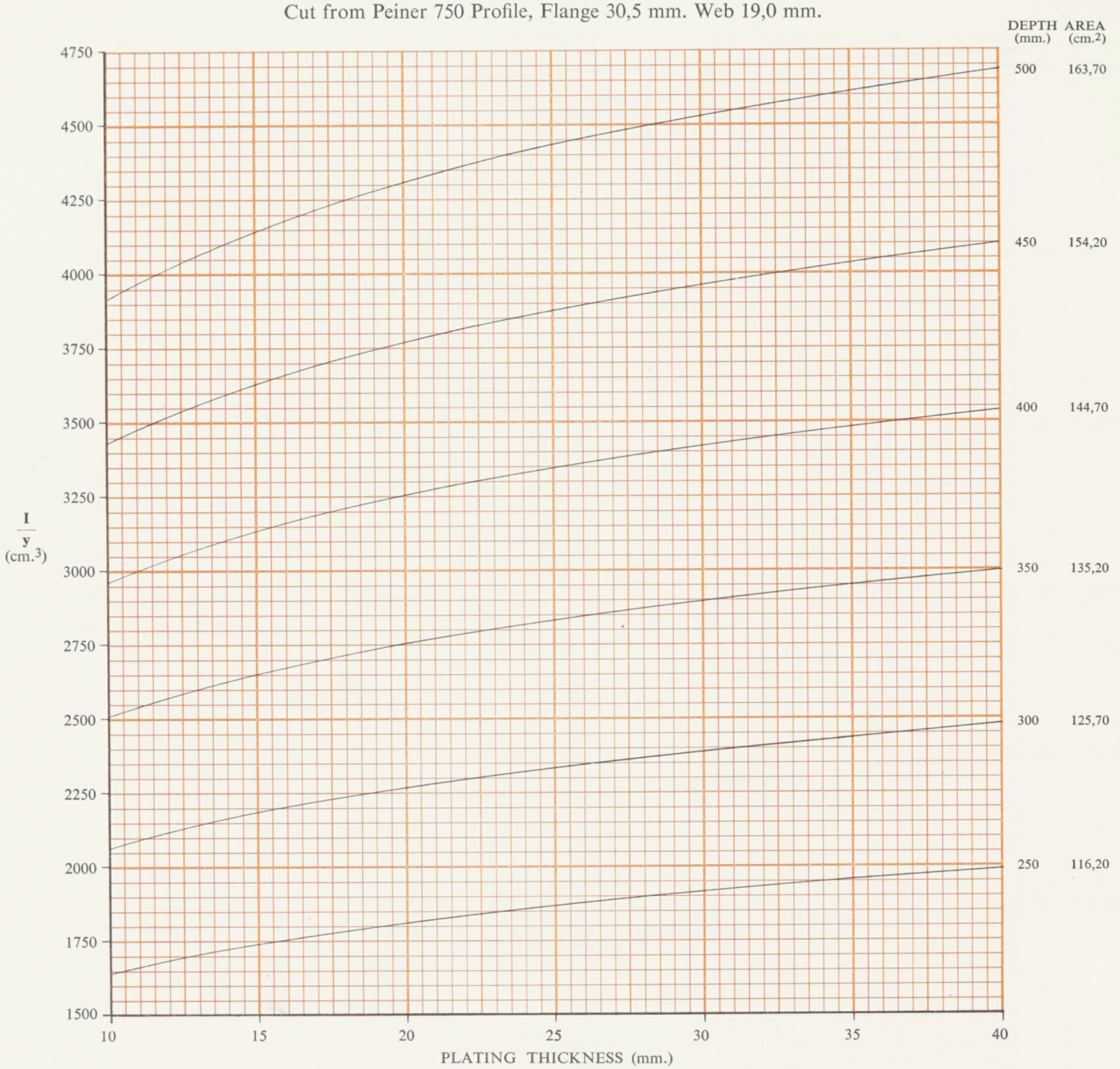


SECTION MODULUS AND AREA OF T - SECTIONS (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



Cut from Peiner 750 Profile, Flange 30,5 mm. Web 19,0 mm.



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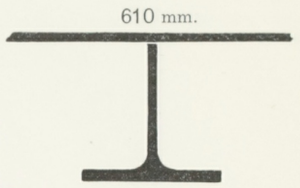
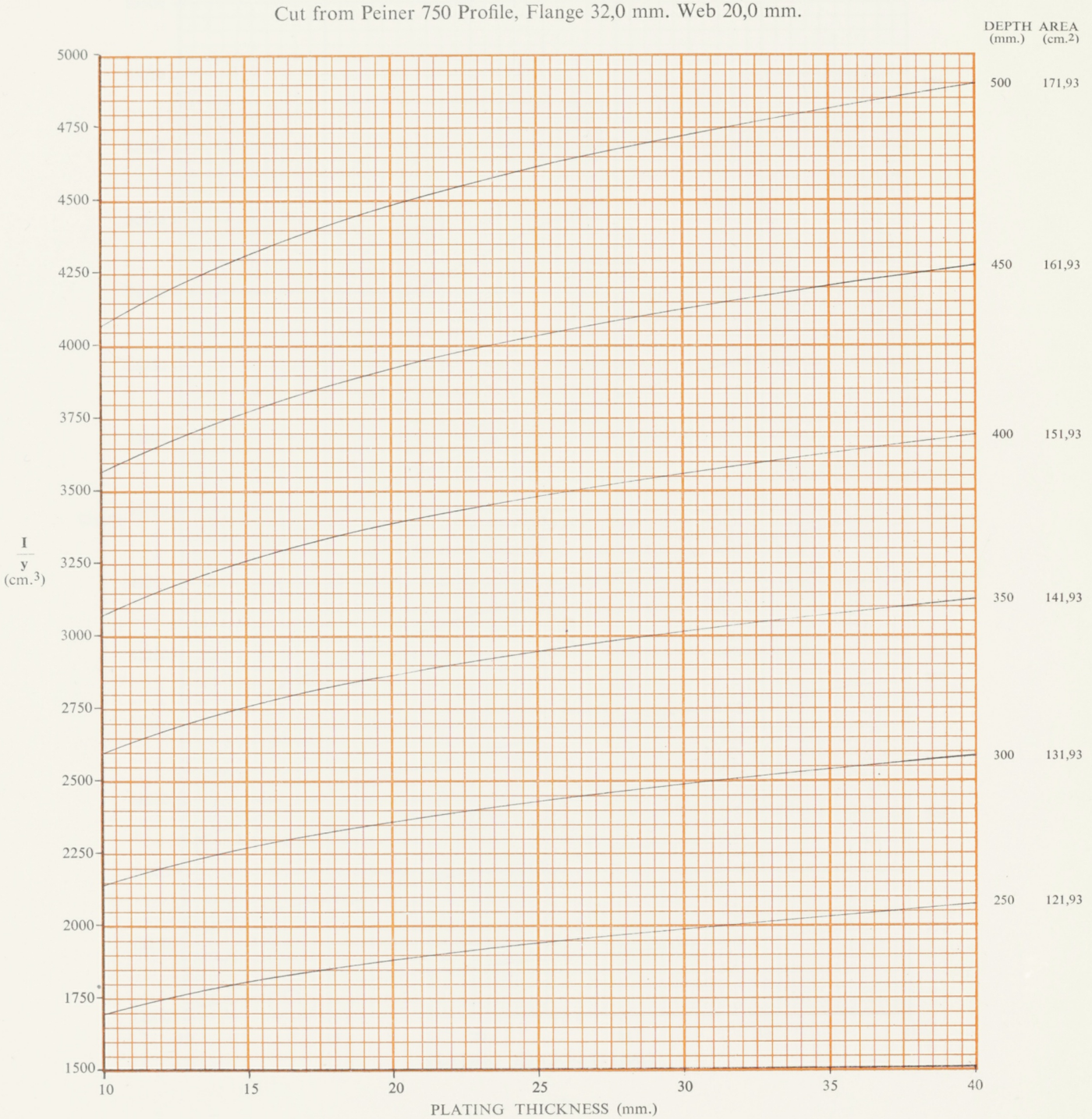
SECTION MODULUS AND AREA OF T - SECTIONS (PEINER)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

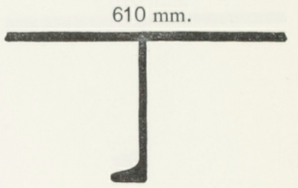


Cut from Peiner 750 Profile, Flange 32,0 mm. Web 20,0 mm.



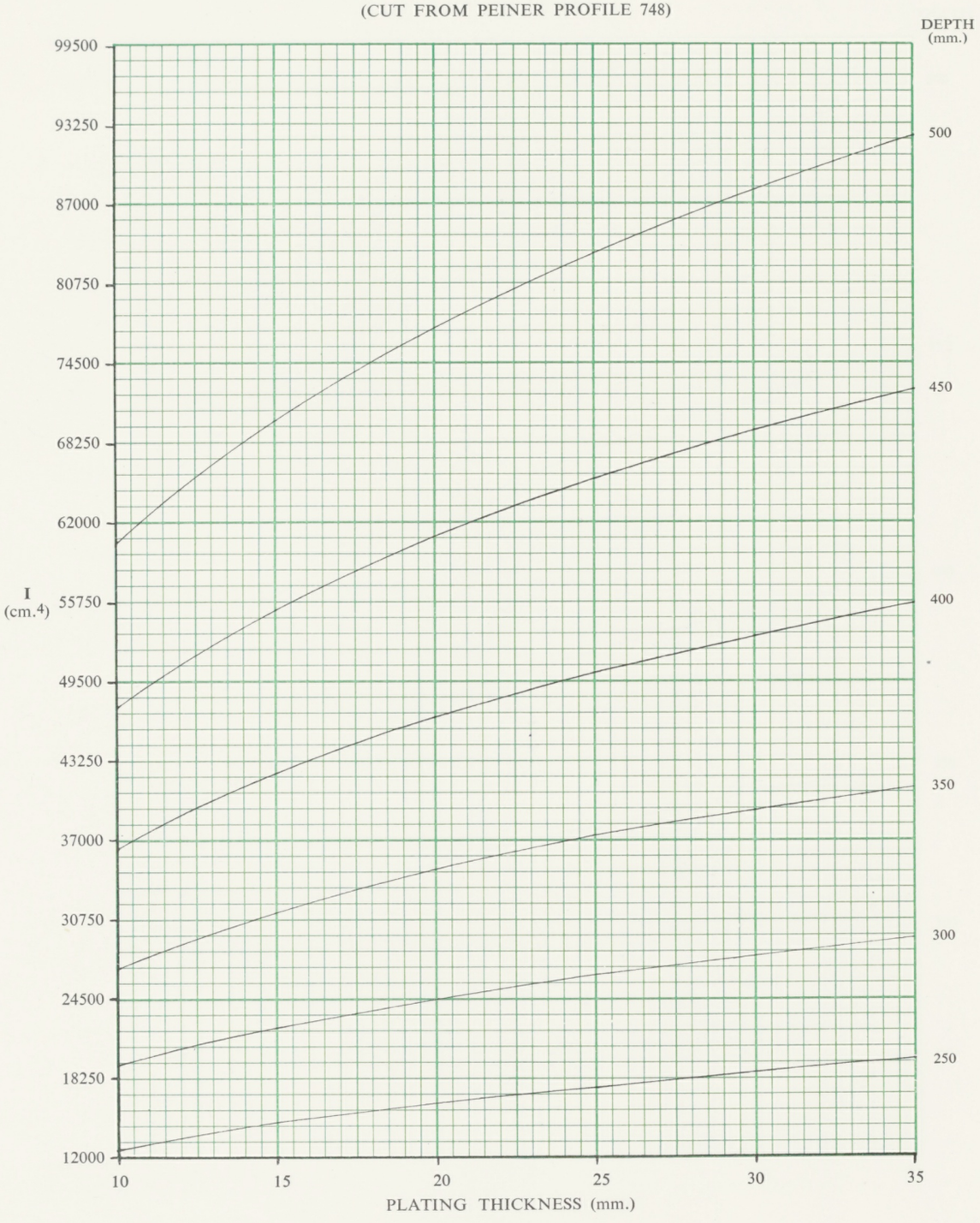
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES (PEINER)

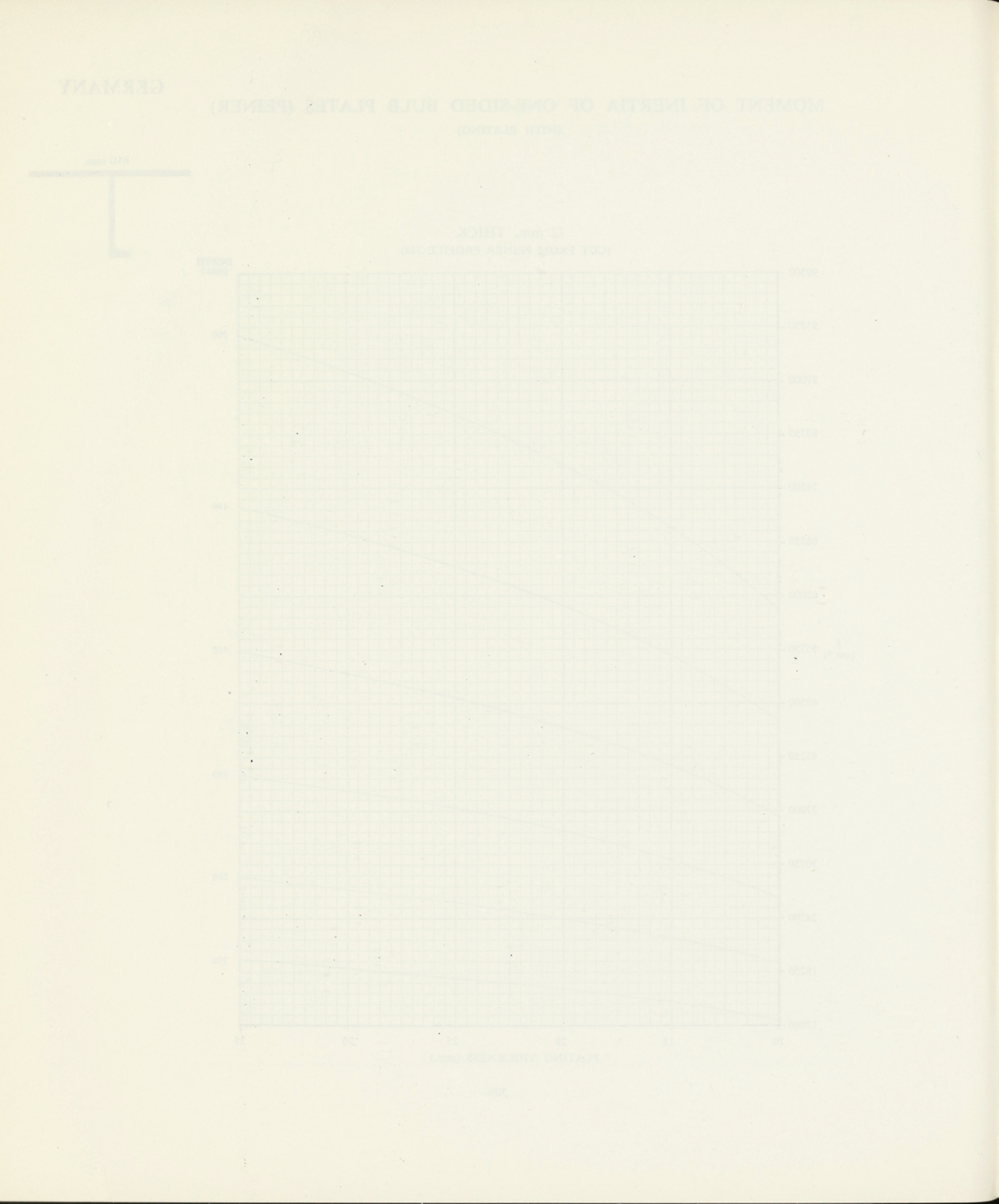
(WITH PLATING)



12 mm. THICK

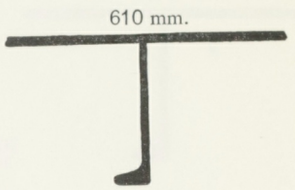
(CUT FROM PEINER PROFILE 748)





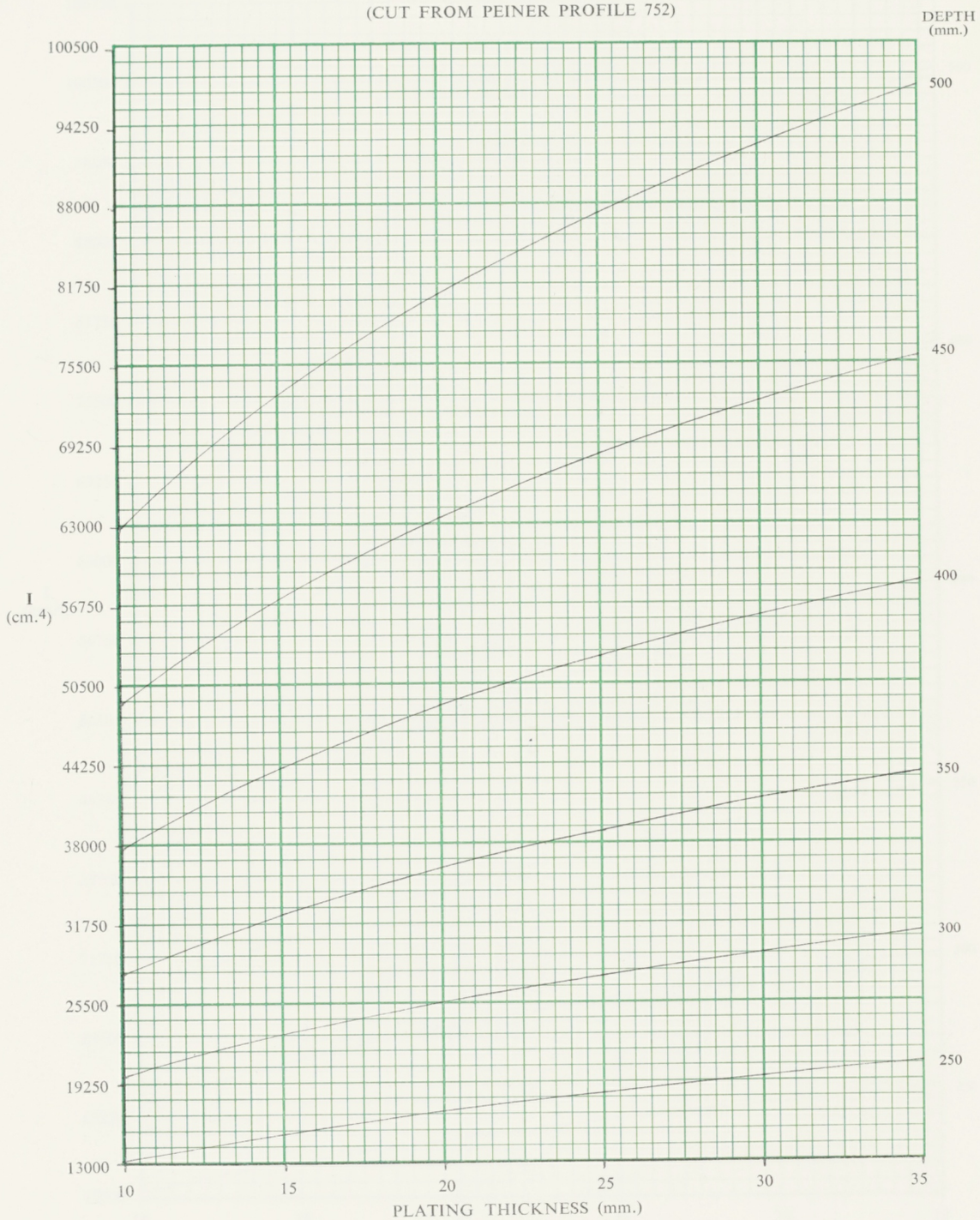
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES (PEINER)

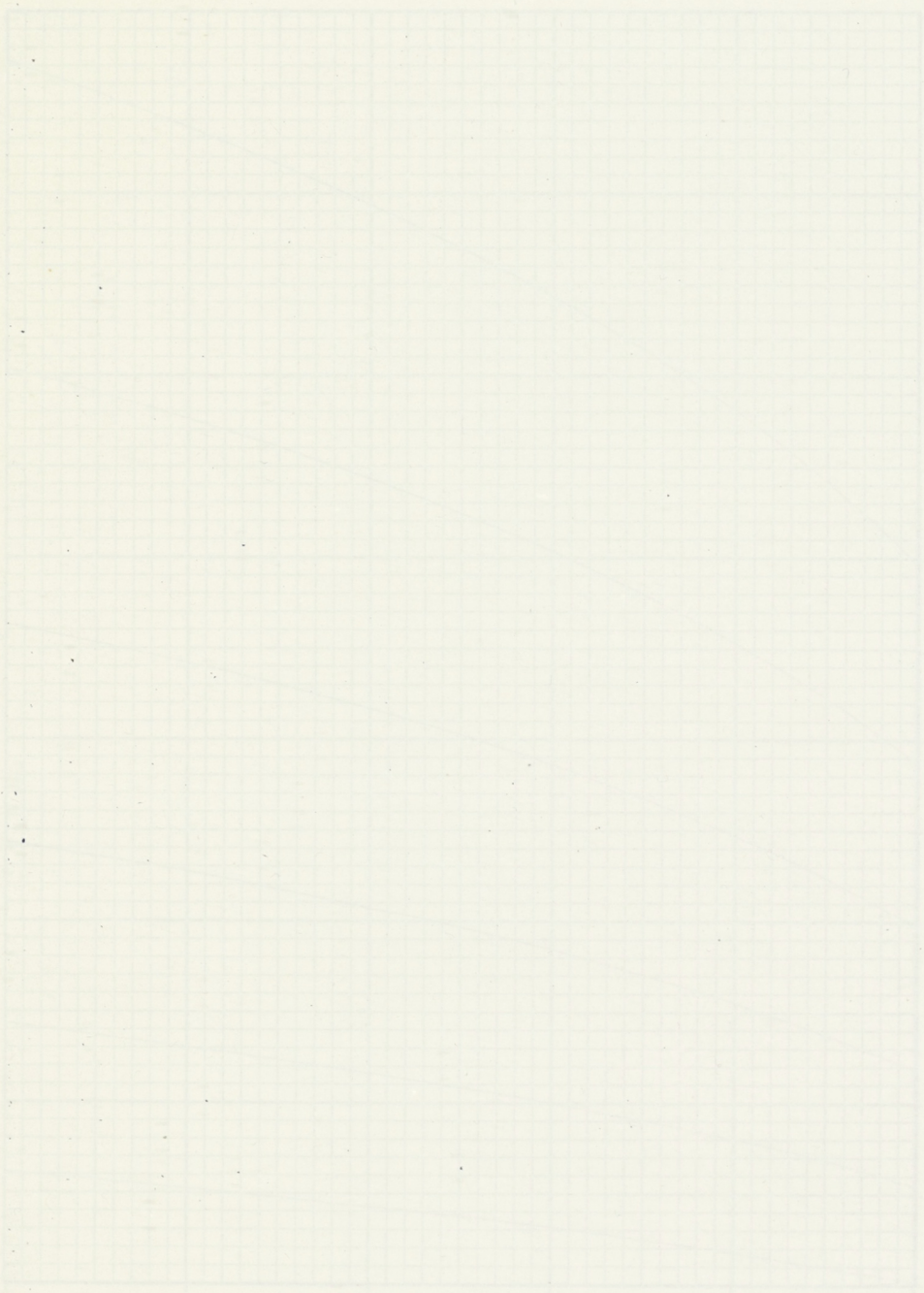
(WITH PLATING)



13 mm. THICK

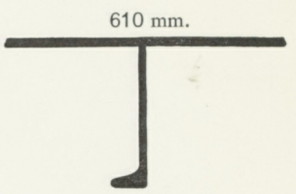
(CUT FROM PEINER PROFILE 752)





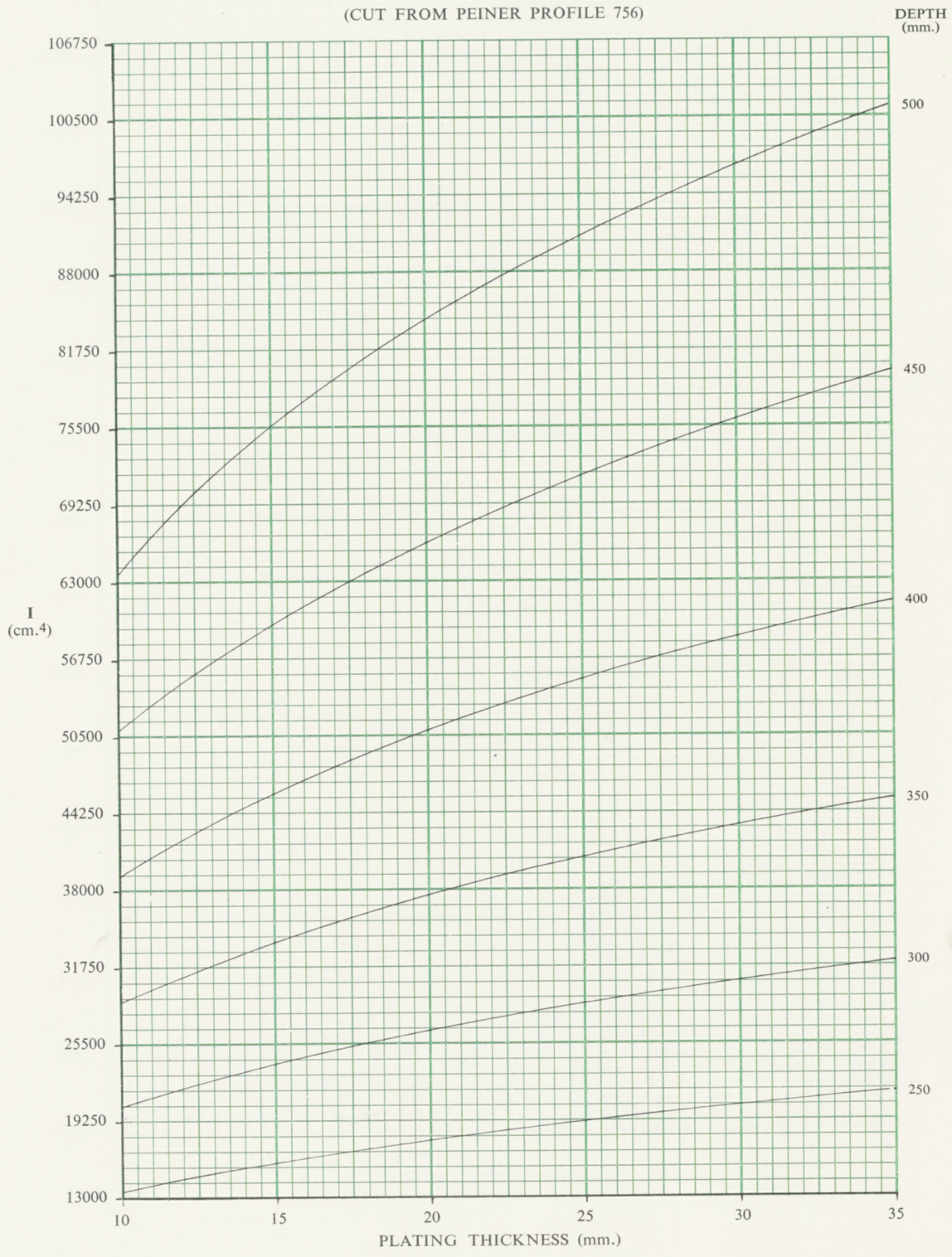
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES (PEINER)

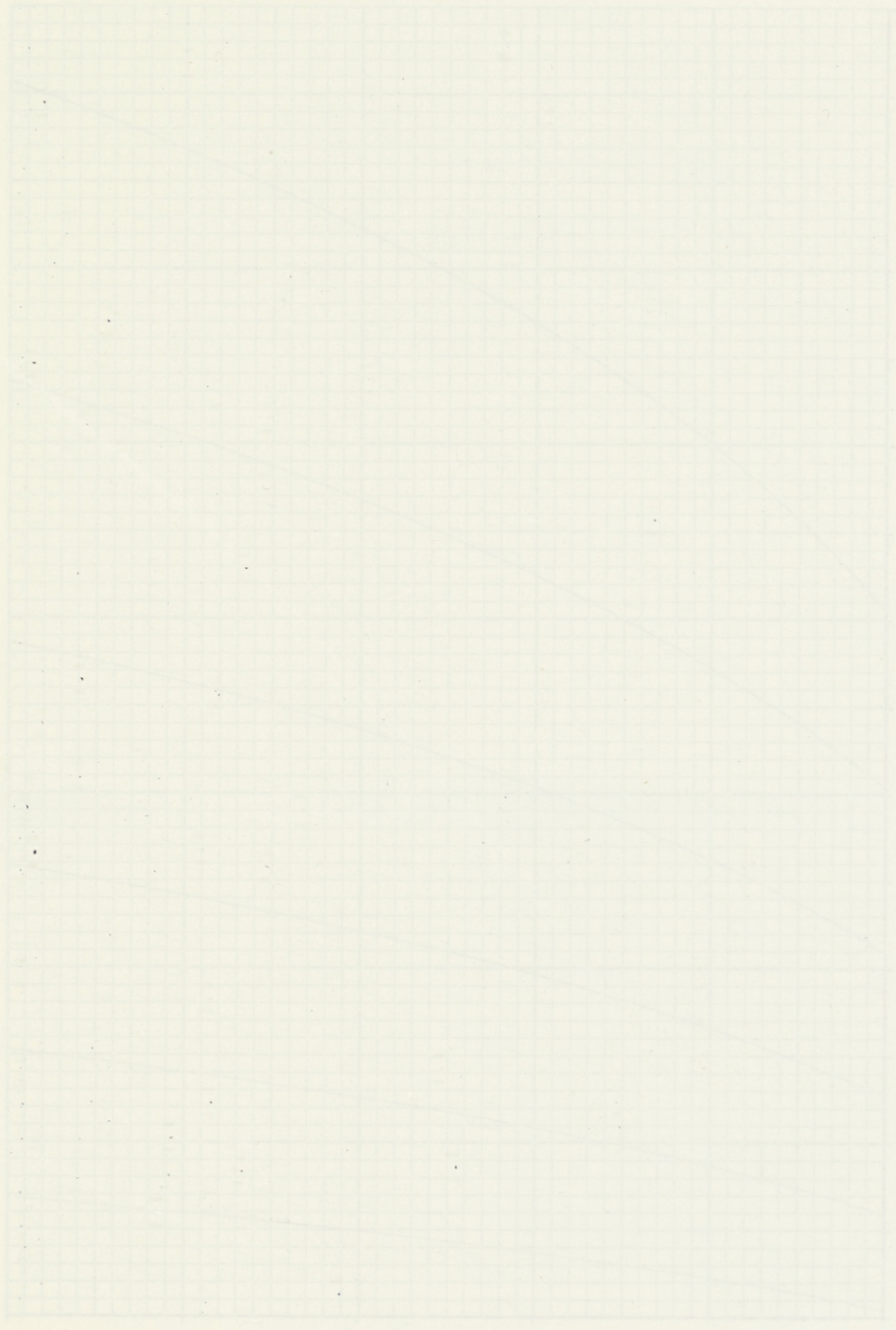
(WITH PLATING)



14 mm. THICK

(CUT FROM PEINER PROFILE 756)

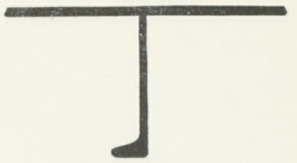




MOMENT OF INERTIA OF ONE-SIDED BULB PLATES (PEINER)

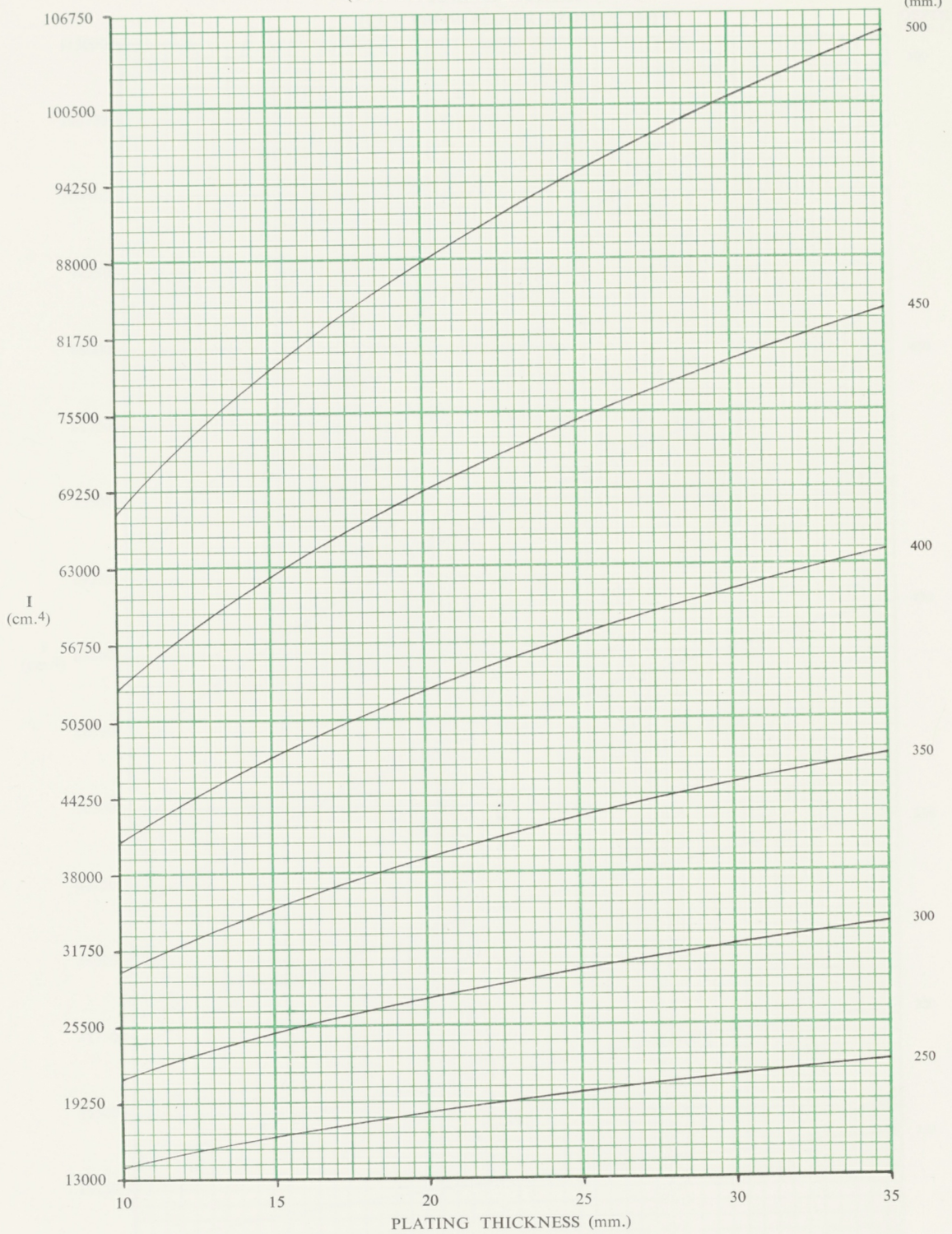
(WITH PLATING)

610 mm.



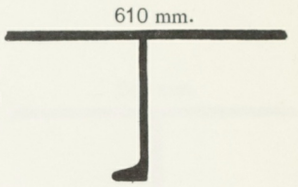
15 mm. THICK

(CUT FROM PEINER PROFILE 760)



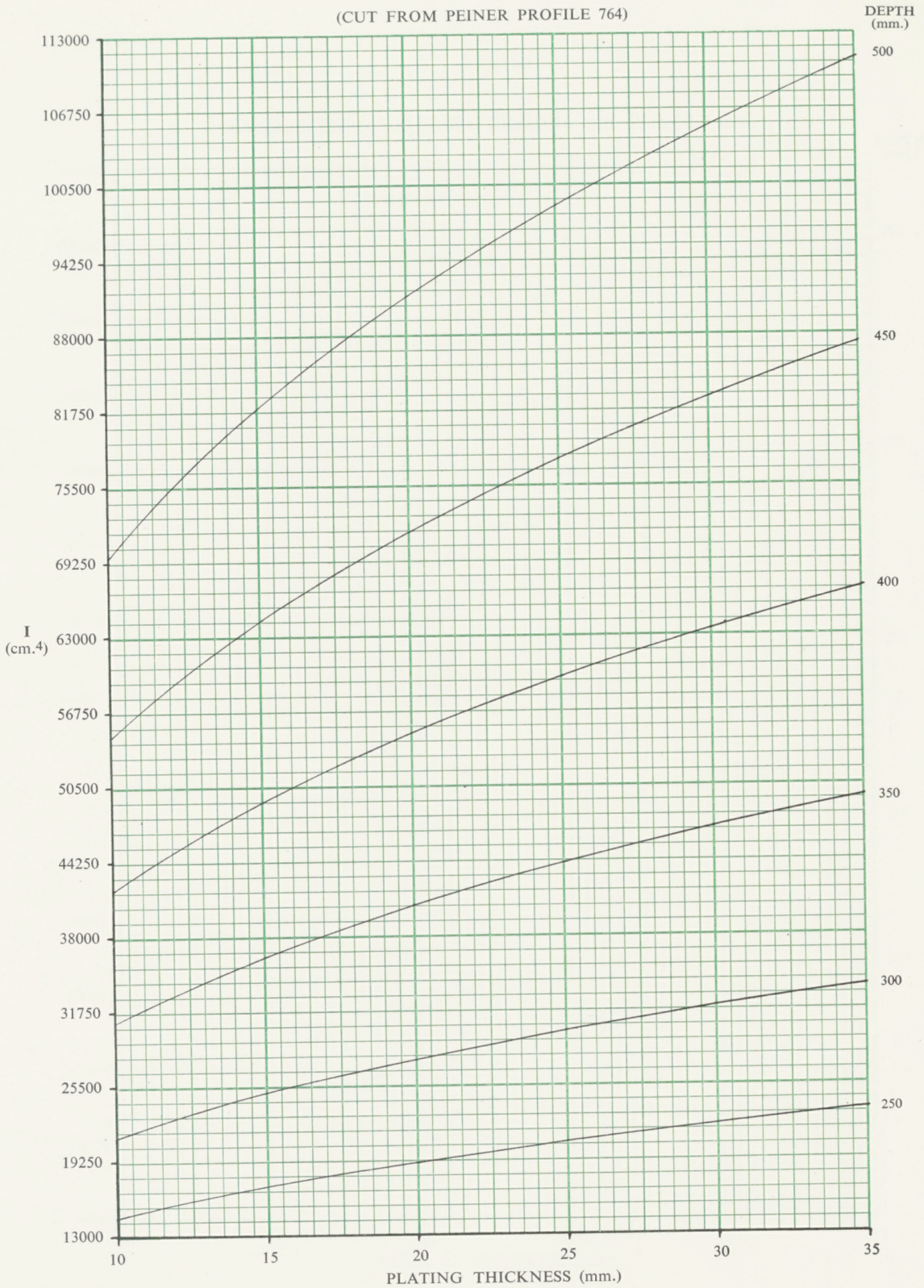
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES (PEINER)

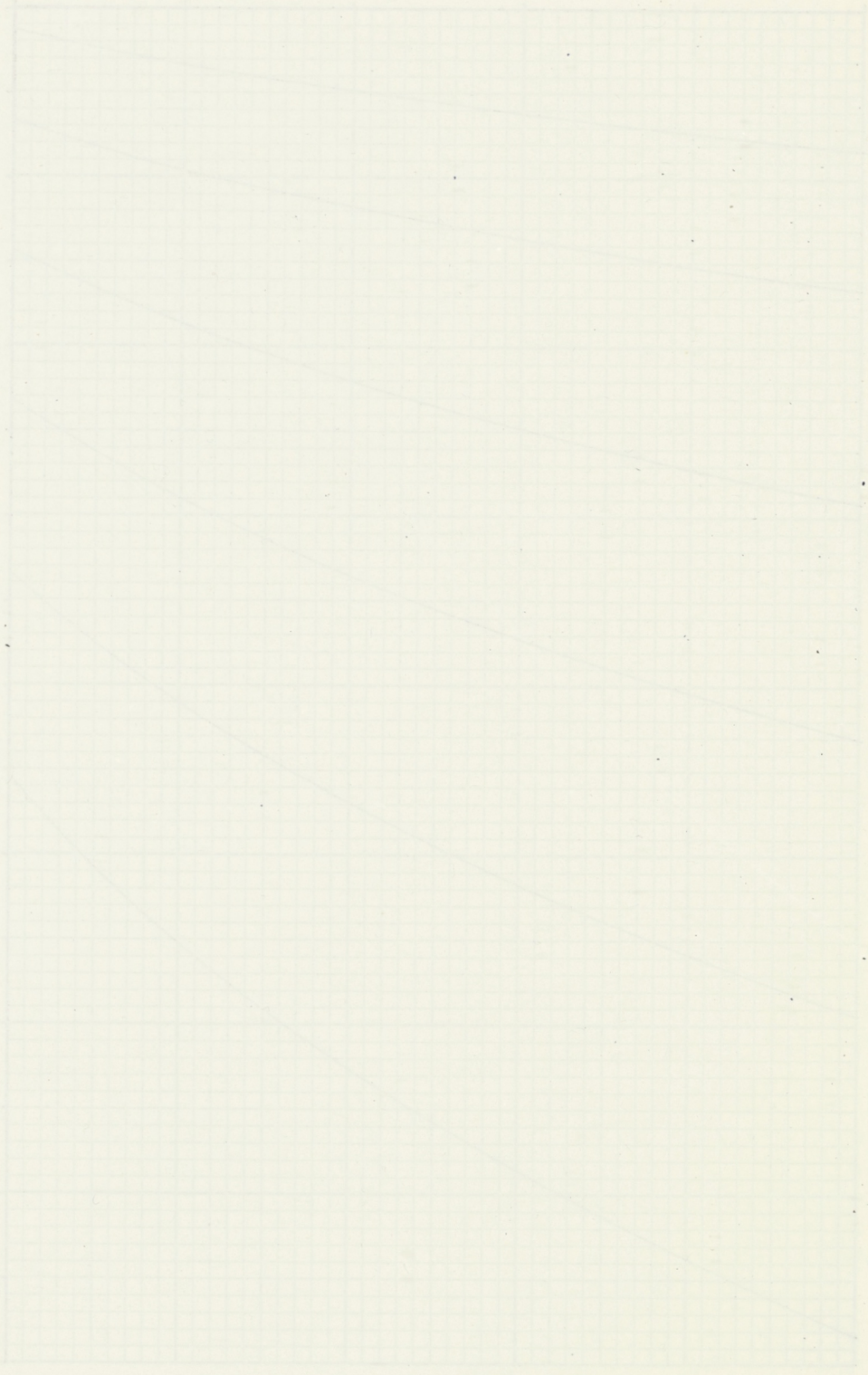
(WITH PLATING)



16 mm. THICK

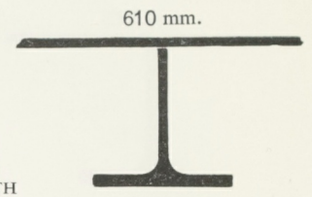
(CUT FROM PEINER PROFILE 764)



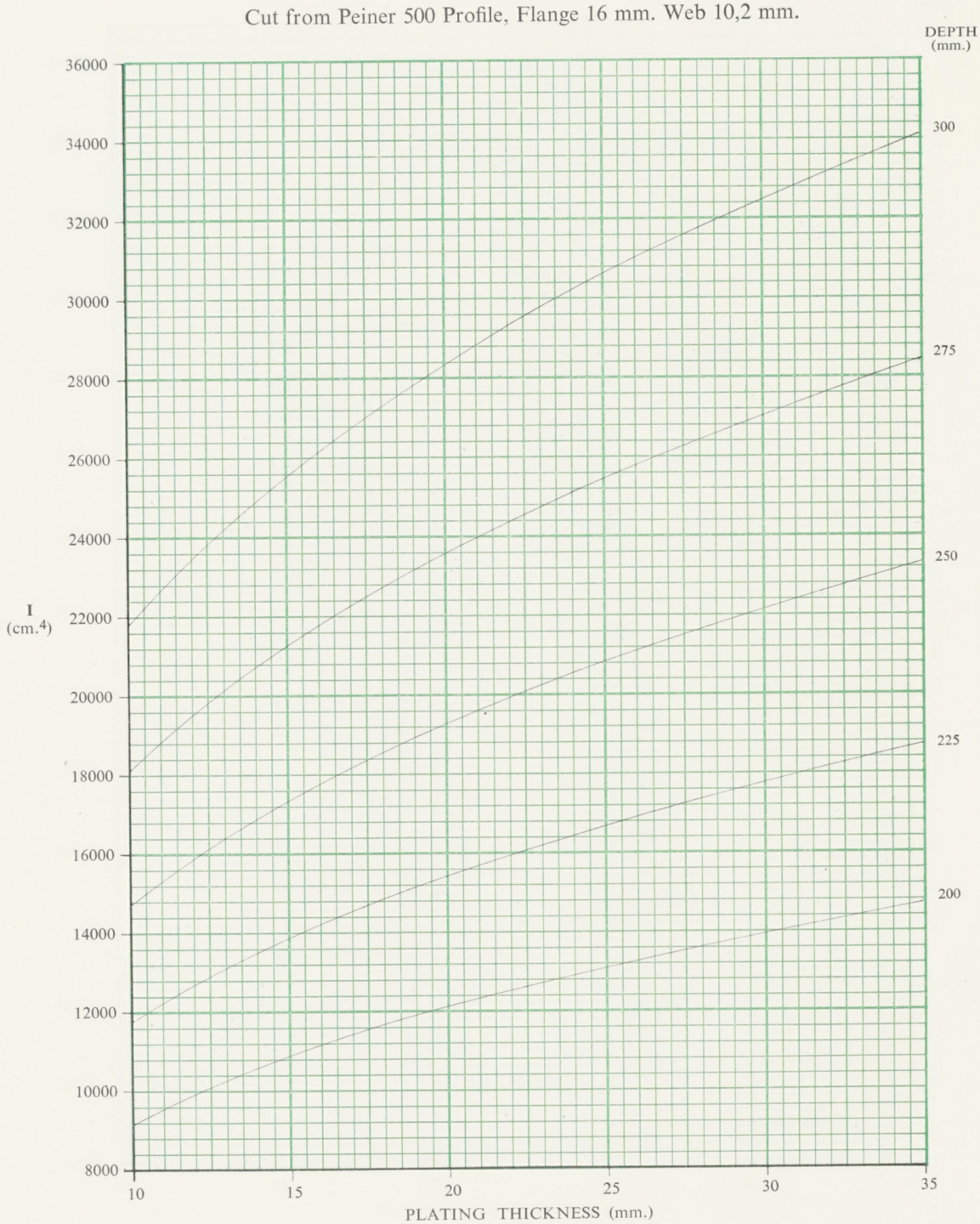


MOMENT OF INERTIA OF T - SECTIONS (PEINER)

(WITH PLATING)

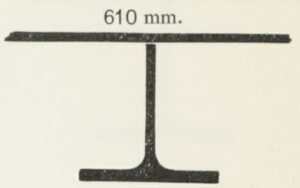


Cut from Peiner 500 Profile, Flange 16 mm. Web 10,2 mm.

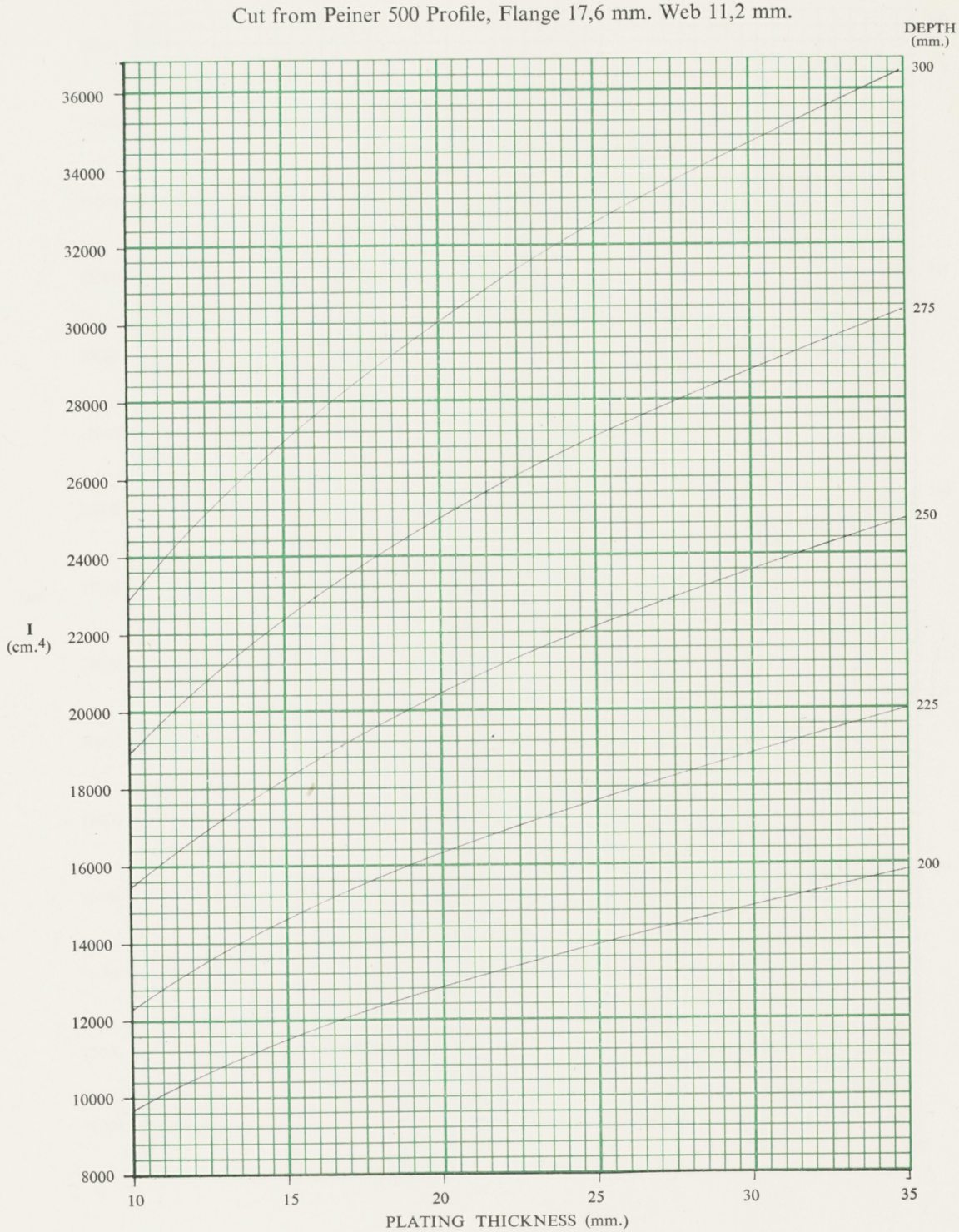


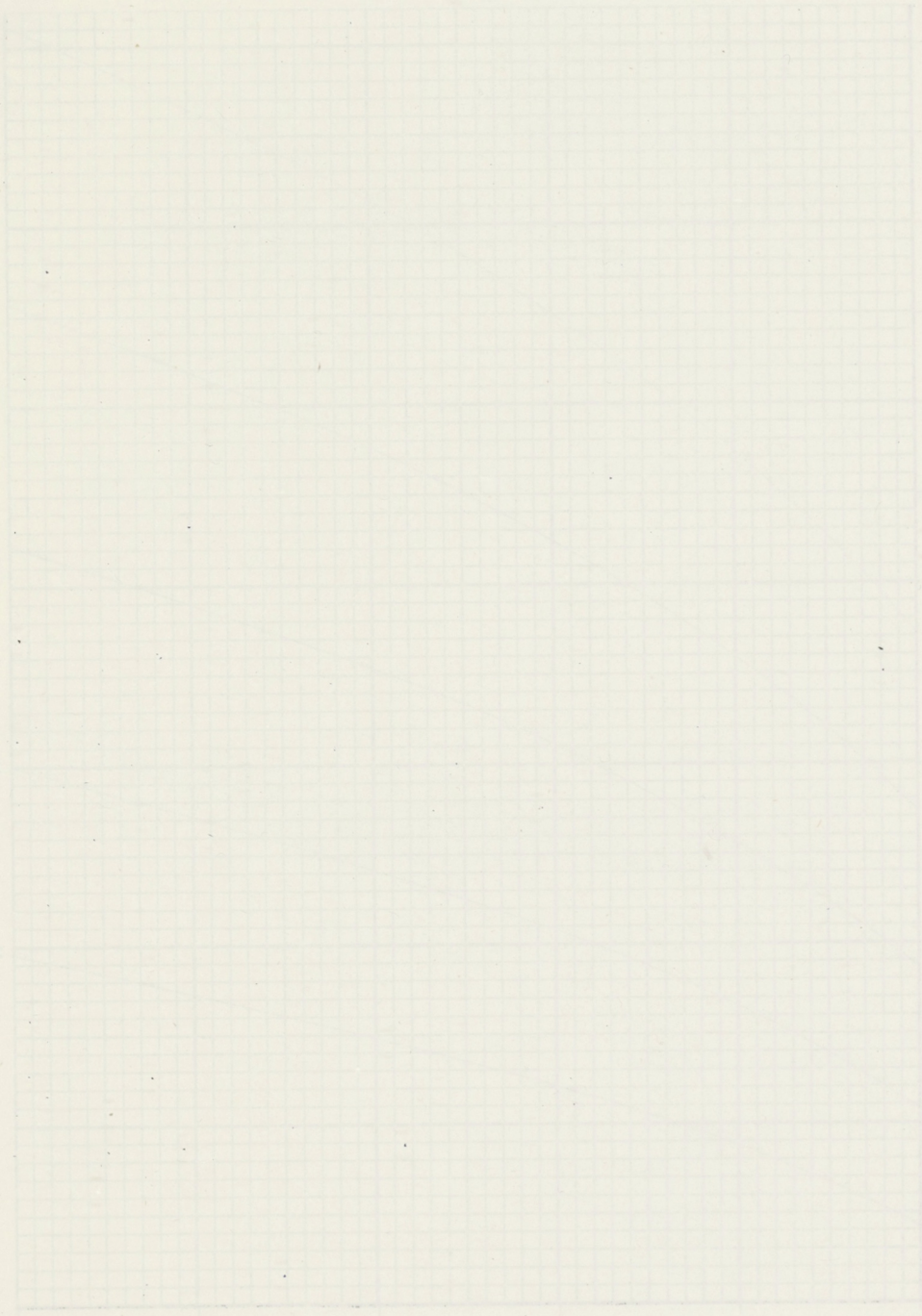
MOMENT OF INERTIA OF T - SECTIONS (PEINER)

(WITH PLATING)



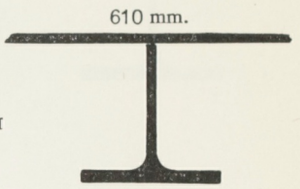
Cut from Peiner 500 Profile, Flange 17,6 mm. Web 11,2 mm.



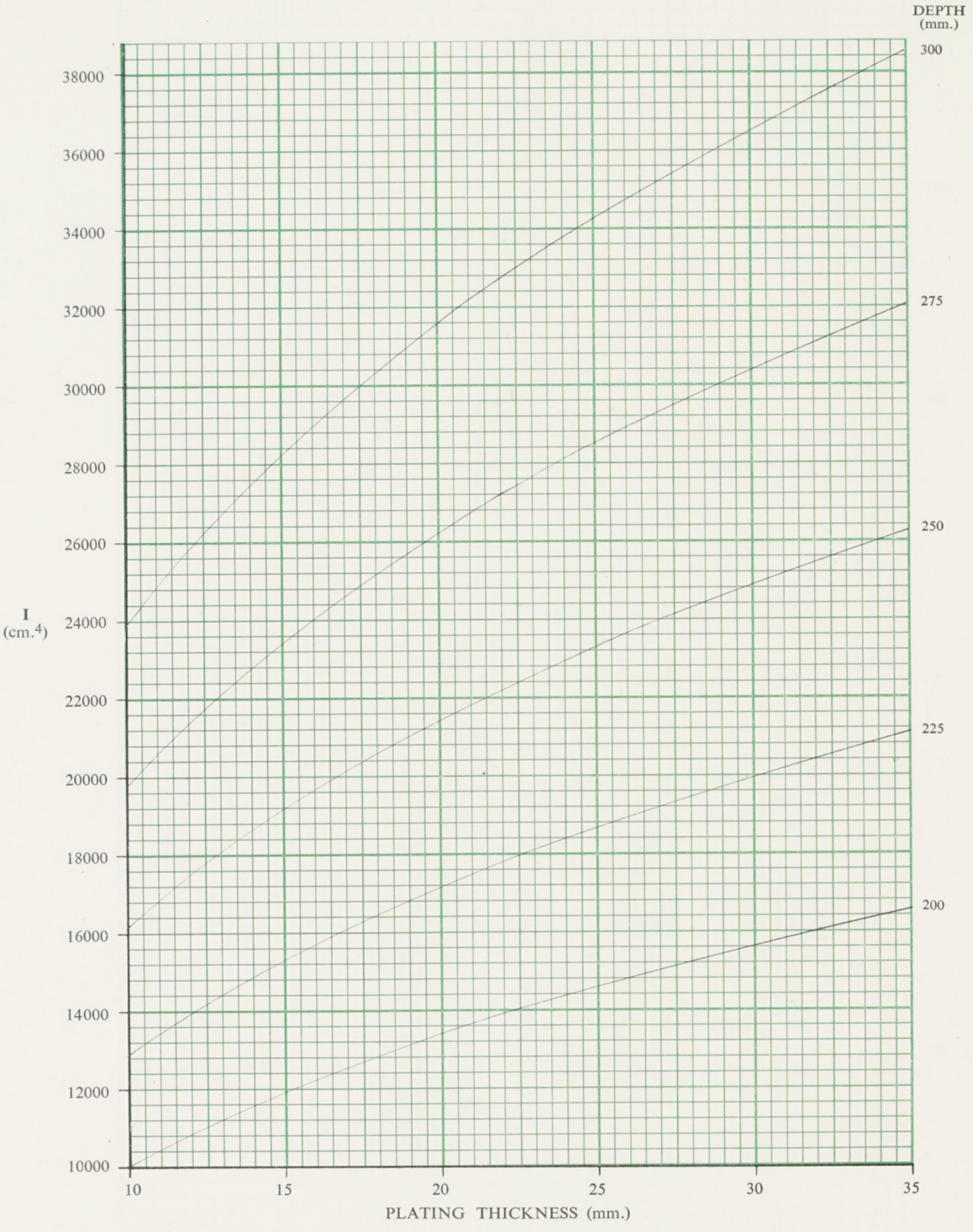


MOMENT OF INERTIA OF T - SECTIONS (PEINER)

(WITH PLATING)

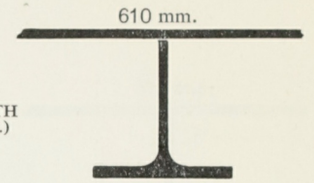


Cut from Peiner 500 Profile, Flange 19,1 mm. Web 12,2 mm.

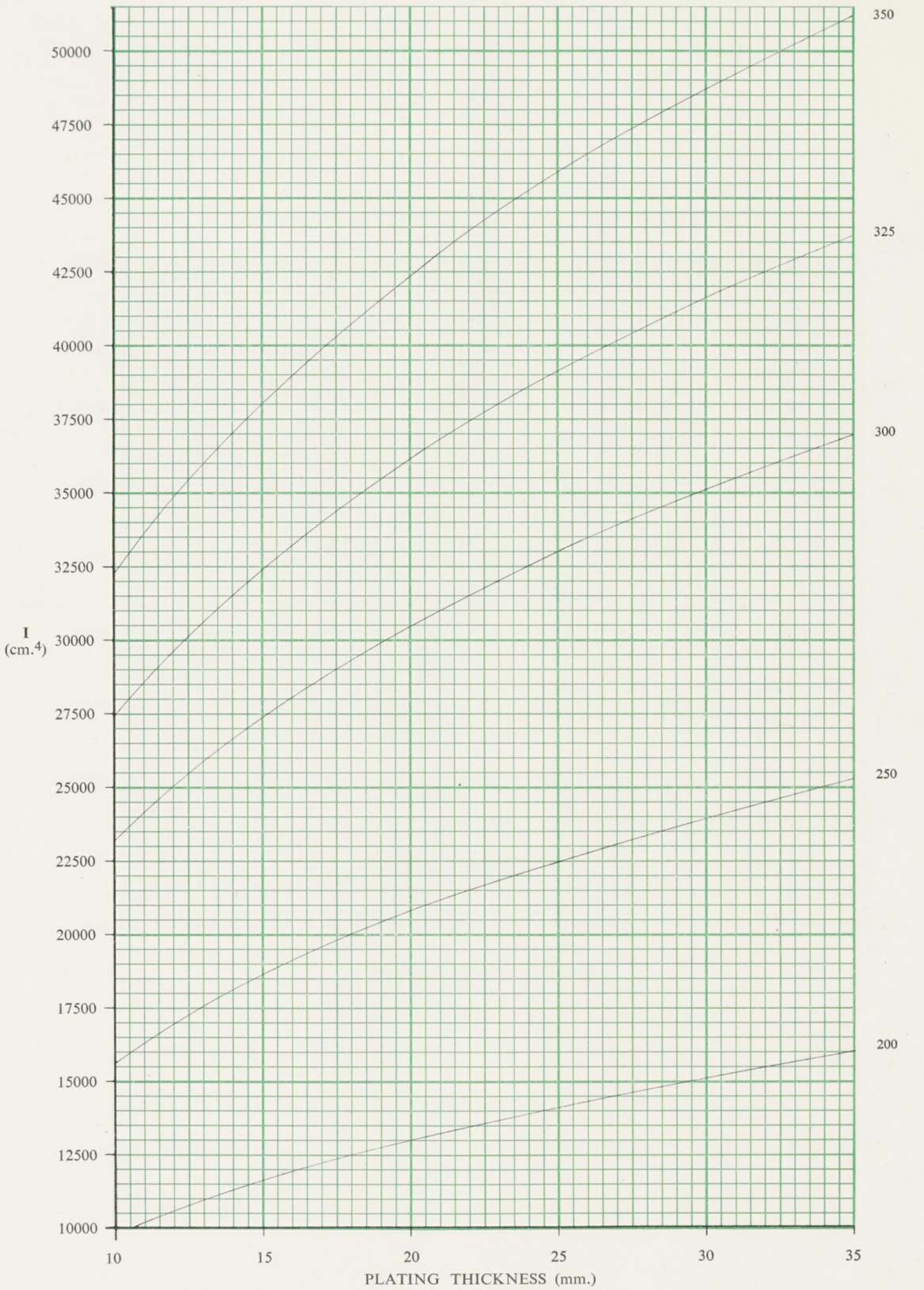


MOMENT OF INERTIA OF T - SECTIONS (PEINER)

(WITH PLATING)

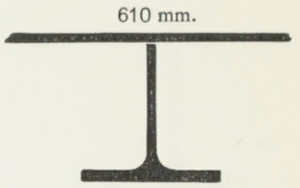


Cut from Peiner 550 Profile, Flange 17,2 mm. Web 11,1 mm.

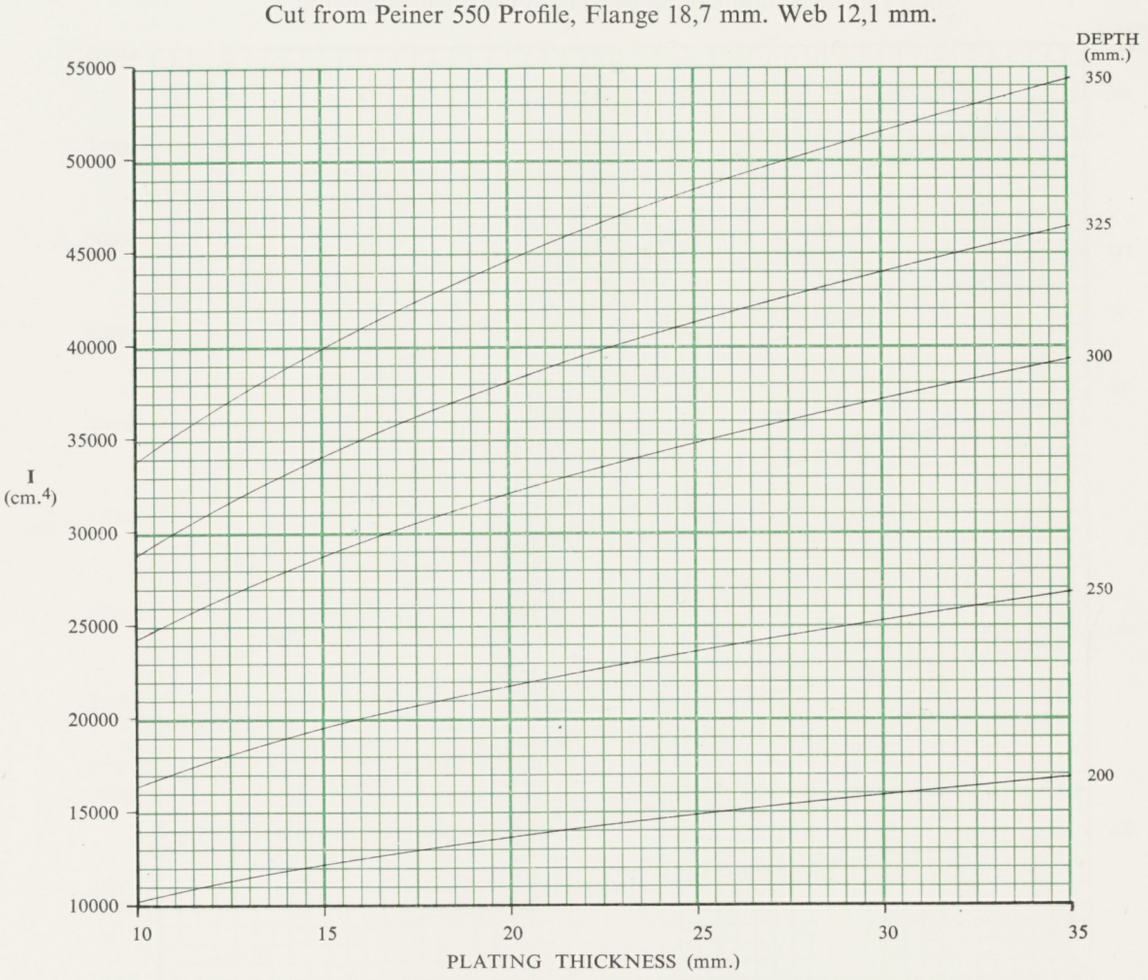


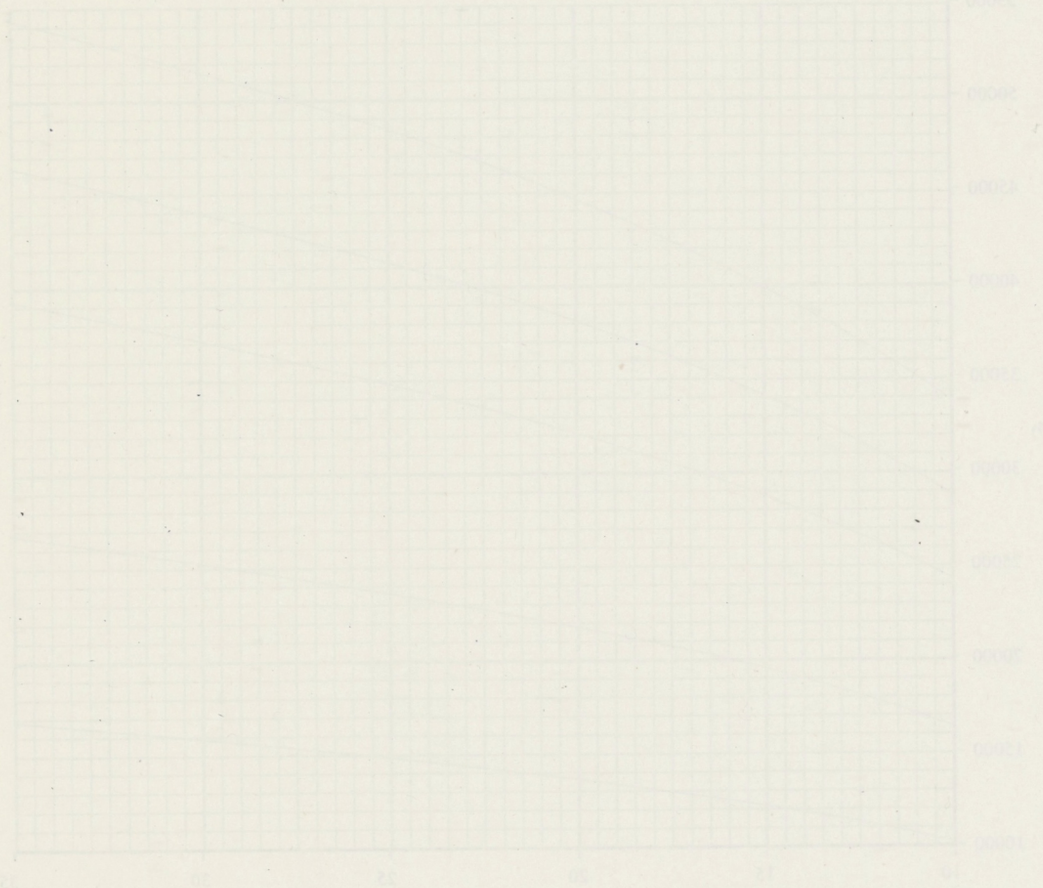
MOMENT OF INERTIA OF T - SECTIONS (PEINER)

(WITH PLATING)



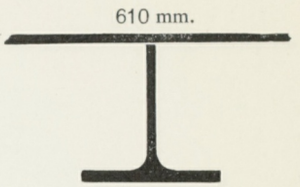
Cut from Peiner 550 Profile, Flange 18,7 mm. Web 12,1 mm.



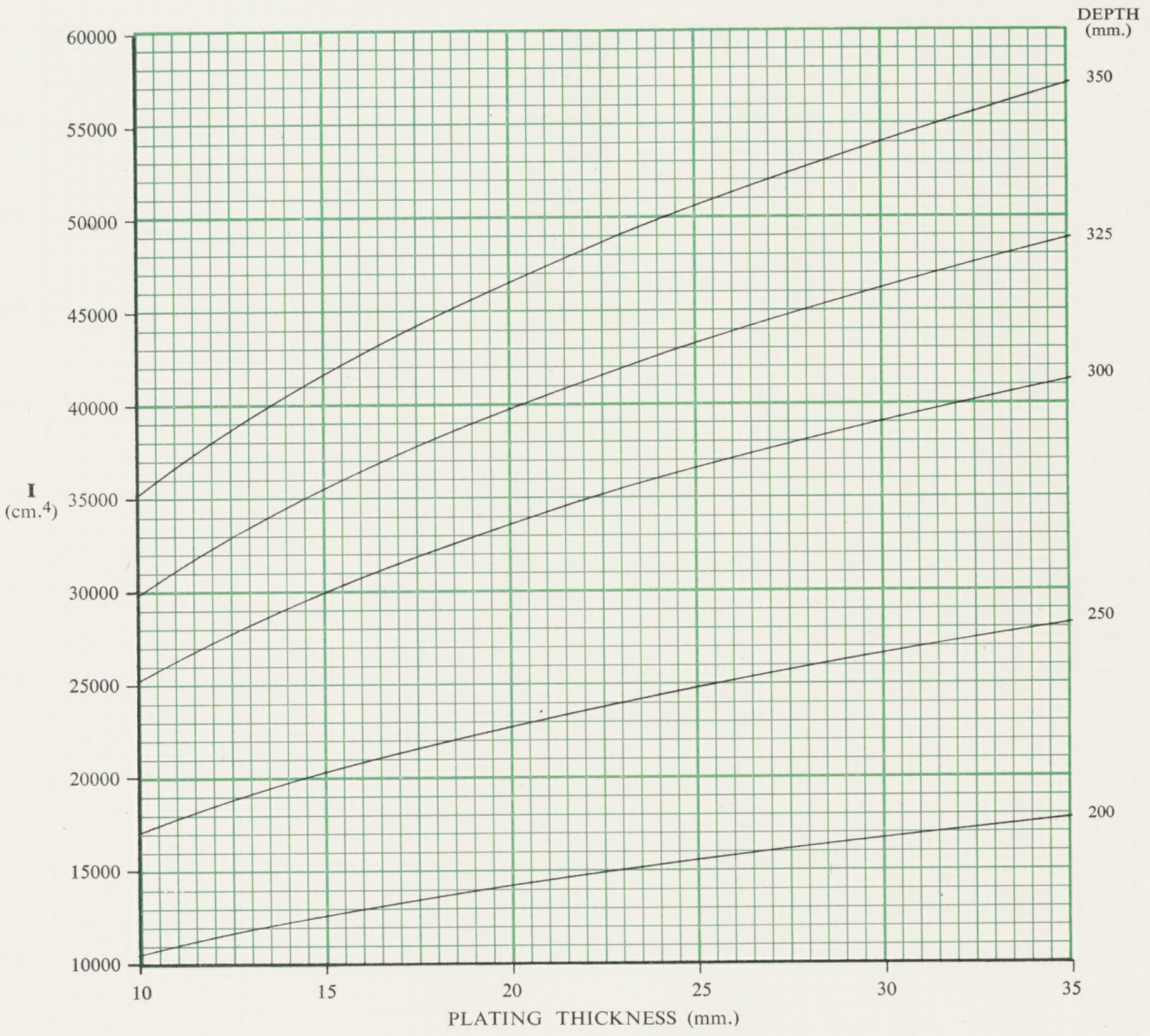


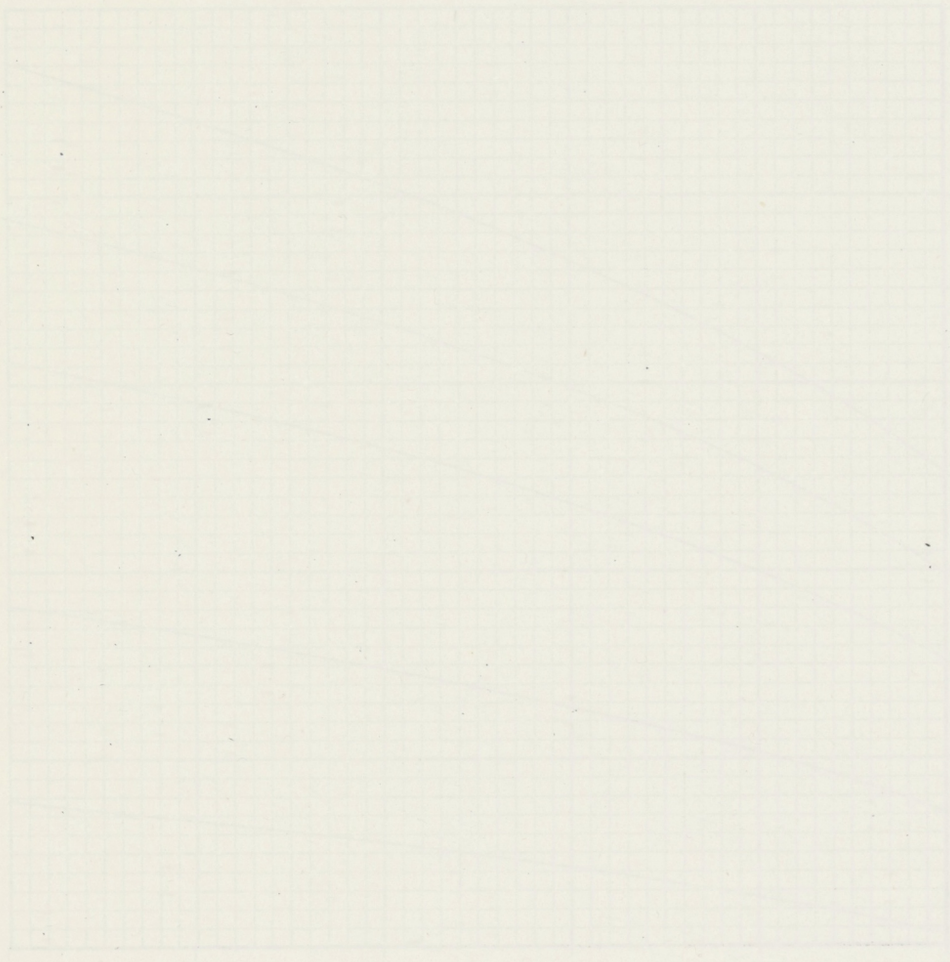
MOMENT OF INERTIA OF T - SECTIONS (PEINER)

(WITH PLATING)



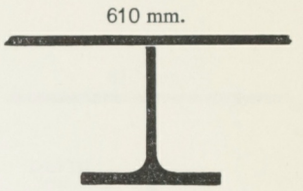
Cut from Peiner 550 Profile, Flange 20,3 mm. Web 13,1 mm.



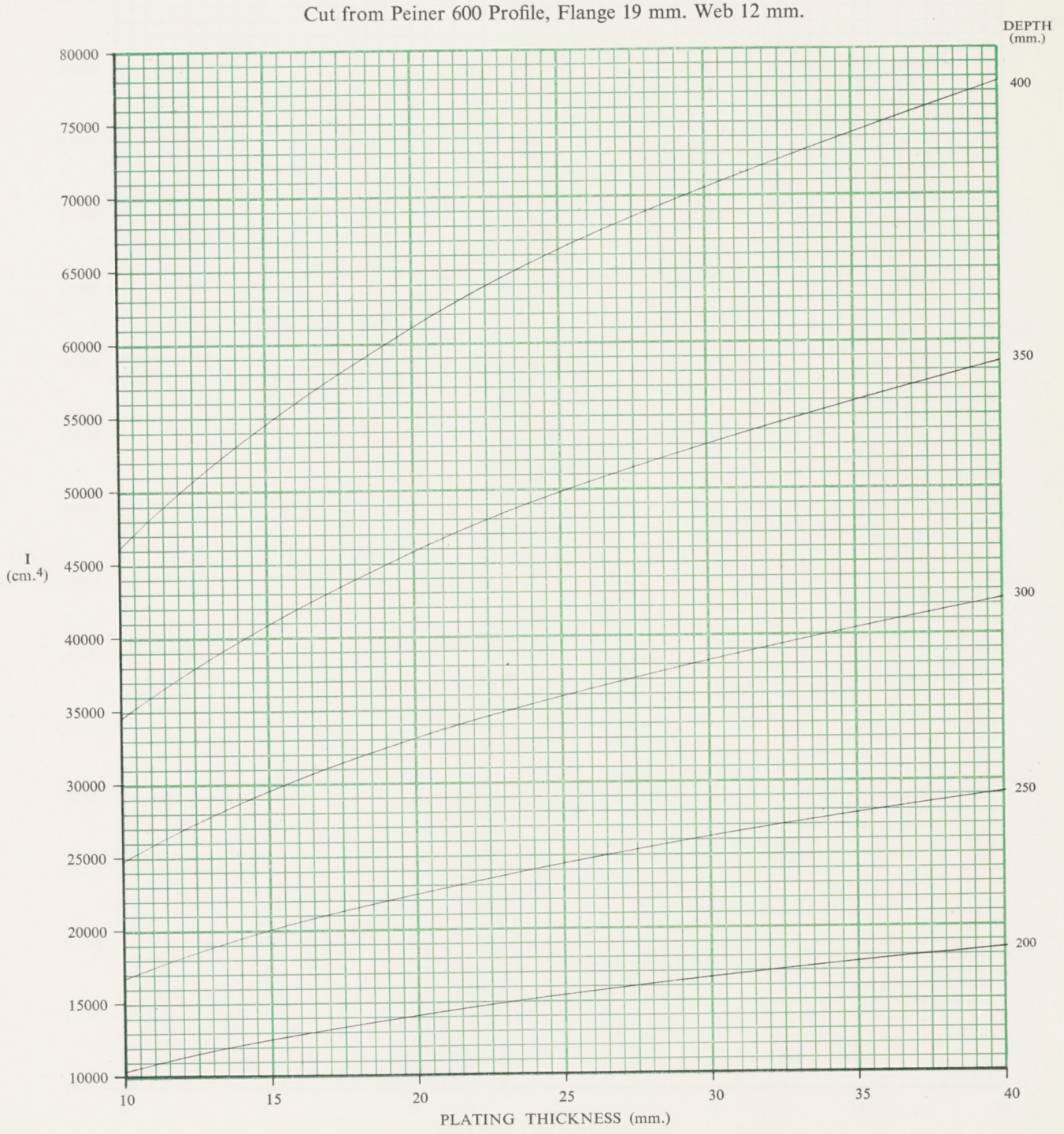


MOMENT OF INERTIA OF T - SECTIONS (PEINER)

(WITH PLATING)

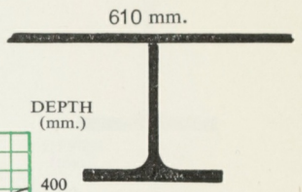


Cut from Peiner 600 Profile, Flange 19 mm. Web 12 mm.

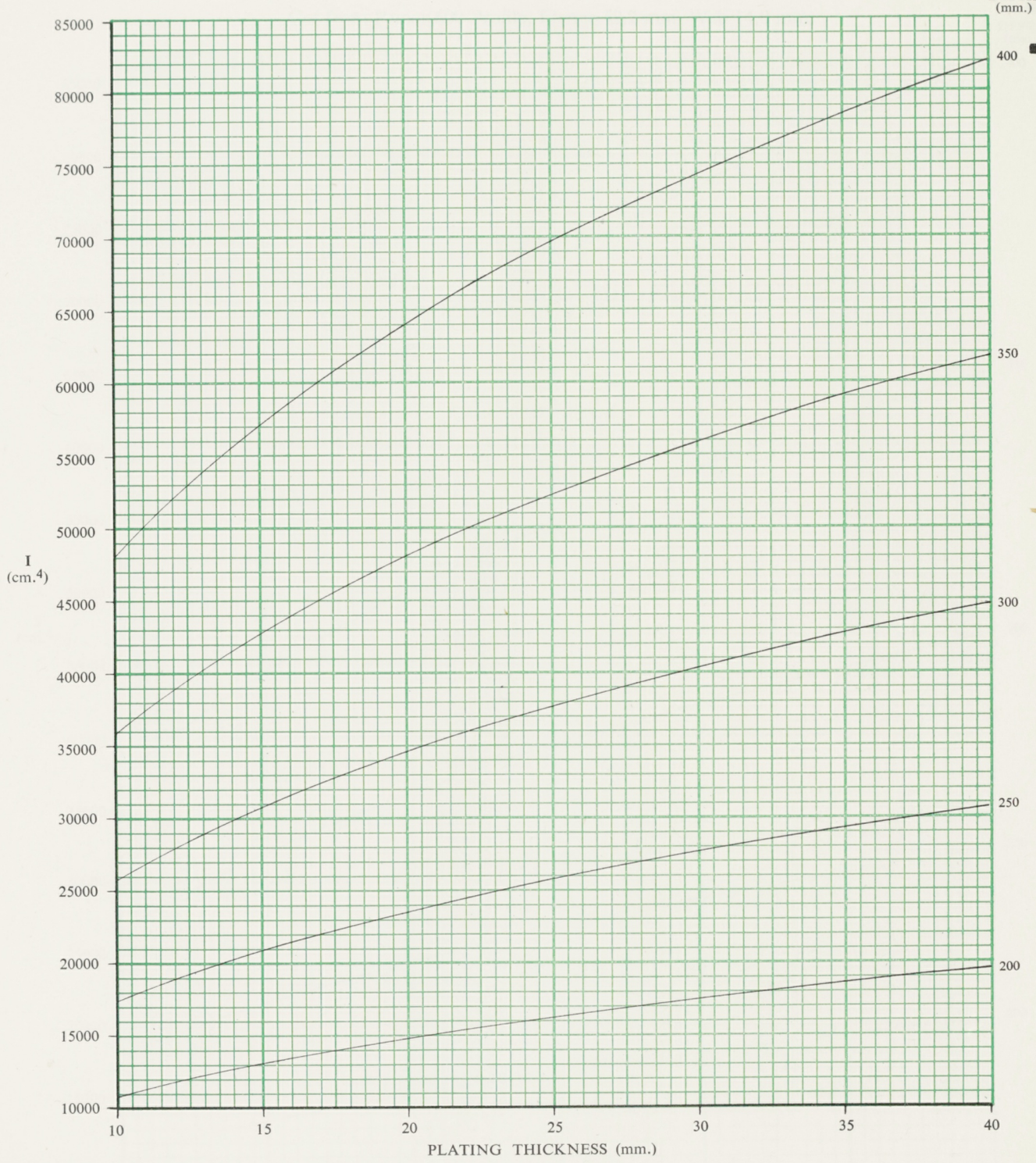


MOMENT OF INERTIA OF T - SECTIONS (PEINER)

(WITH PLATING)

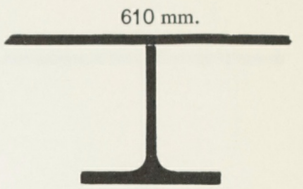


Cut from Peiner 600 Profile, Flange 20,6 mm. Web 13 mm.

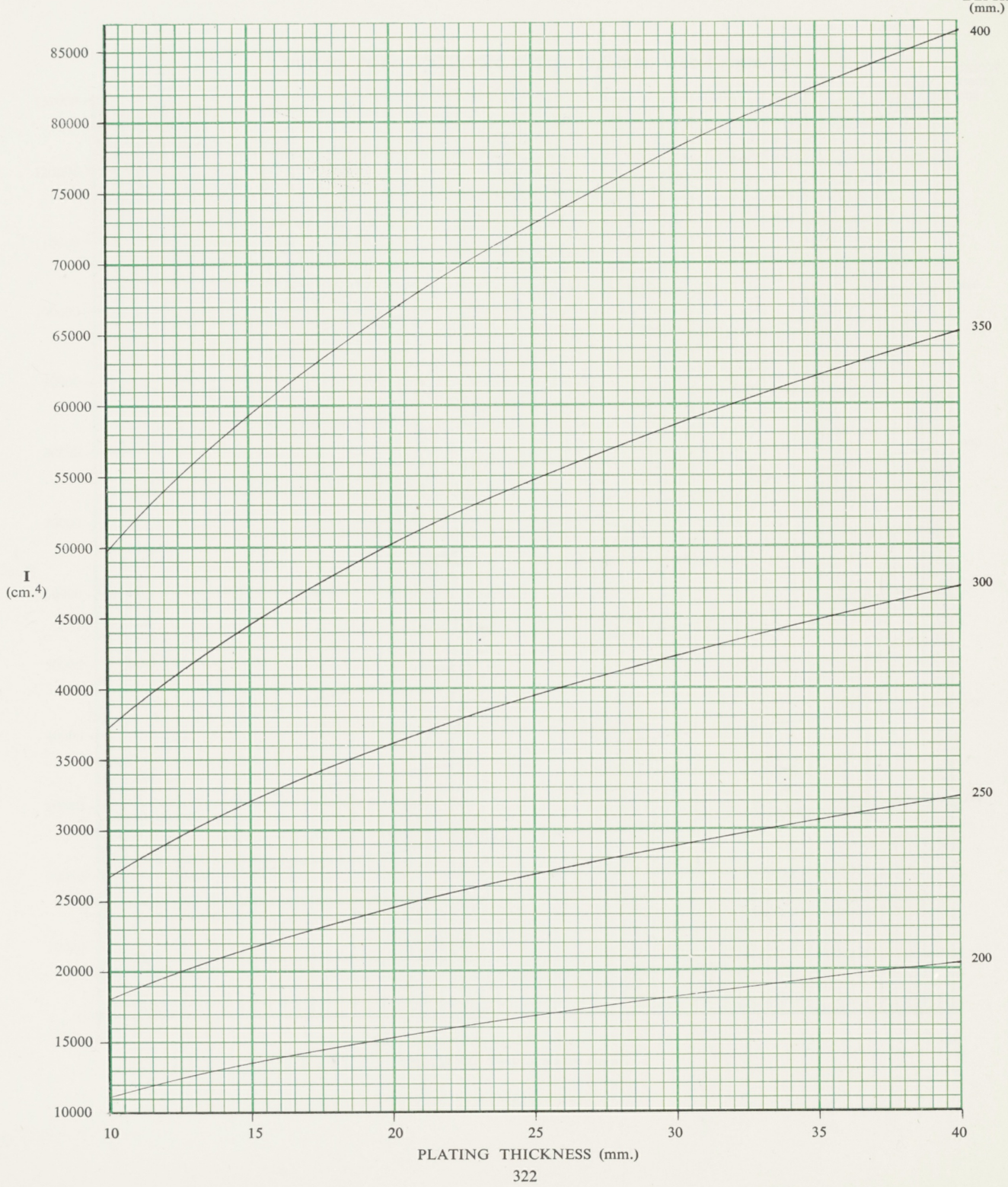


MOMENT OF INERTIA OF T - SECTIONS (PEINER)

(WITH PLATING)

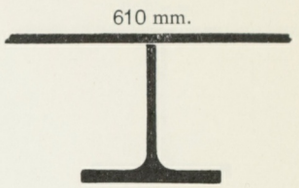


Cut from Peiner 600 Profile, Flange 22,2 mm. Web 14,0 mm.

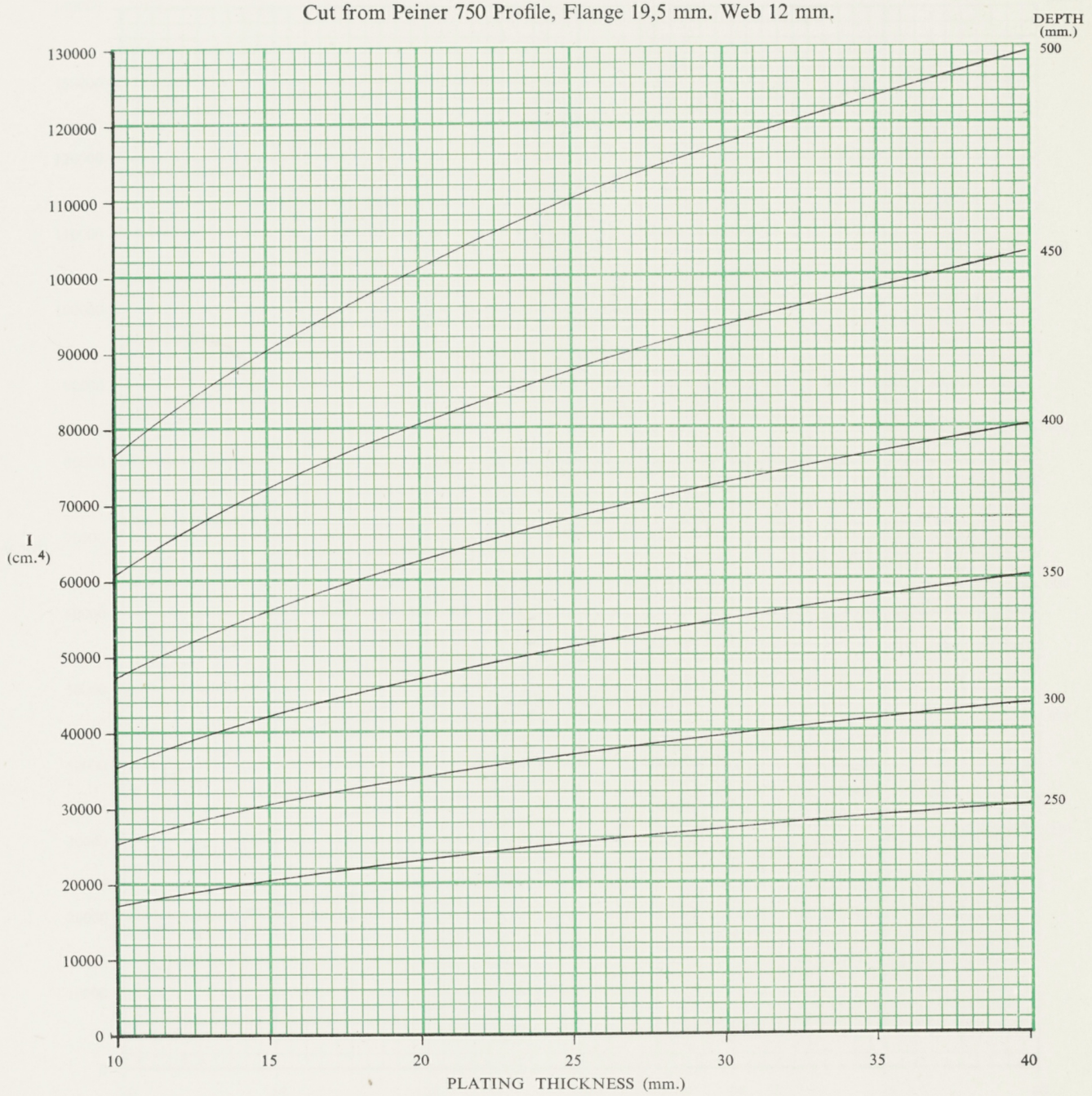


MOMENT OF INERTIA OF T - SECTIONS (PEINER)

(WITH PLATING)

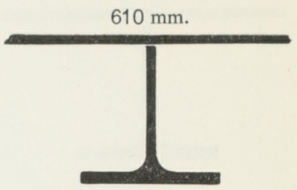


Cut from Peiner 750 Profile, Flange 19,5 mm. Web 12 mm.

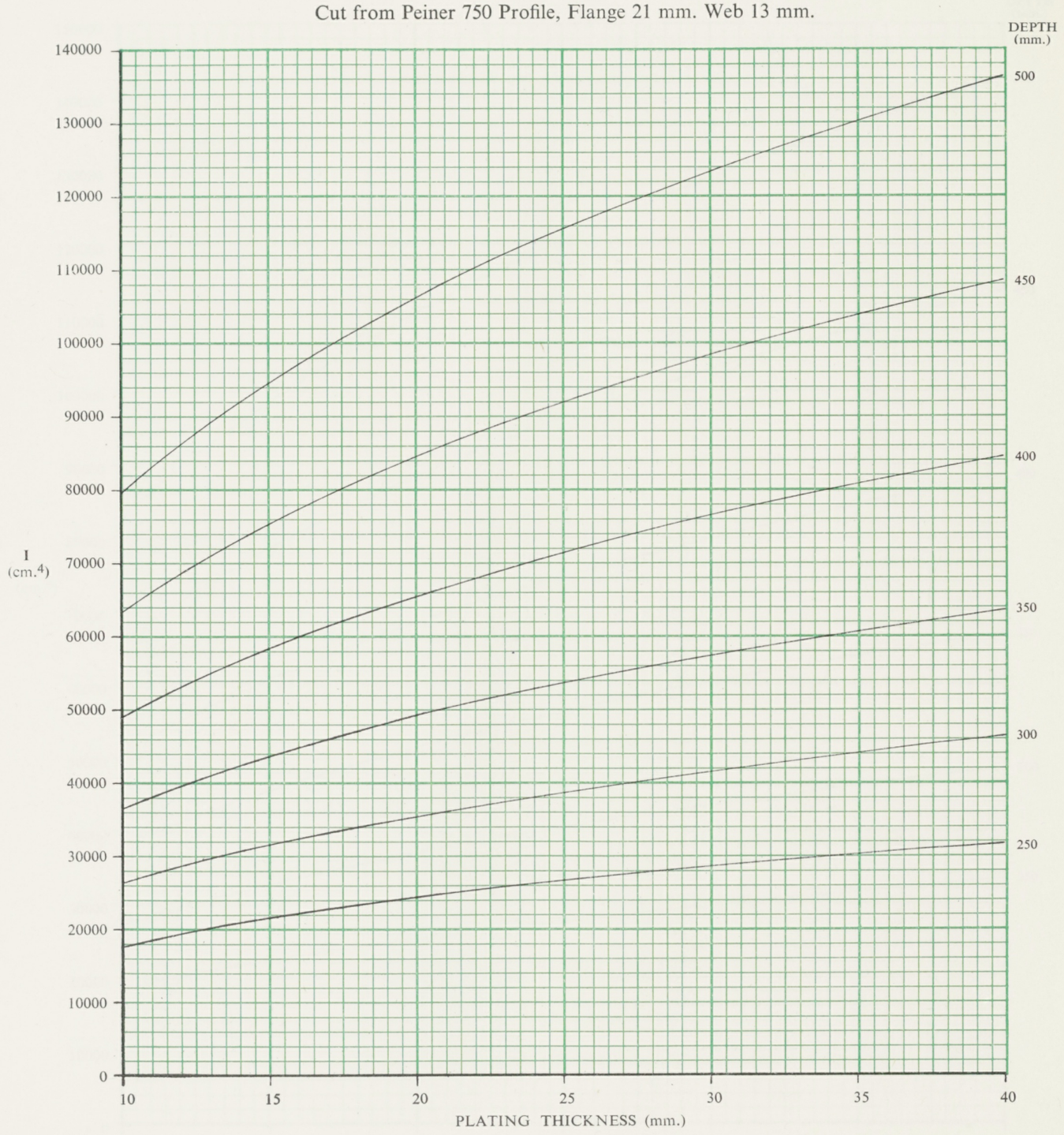


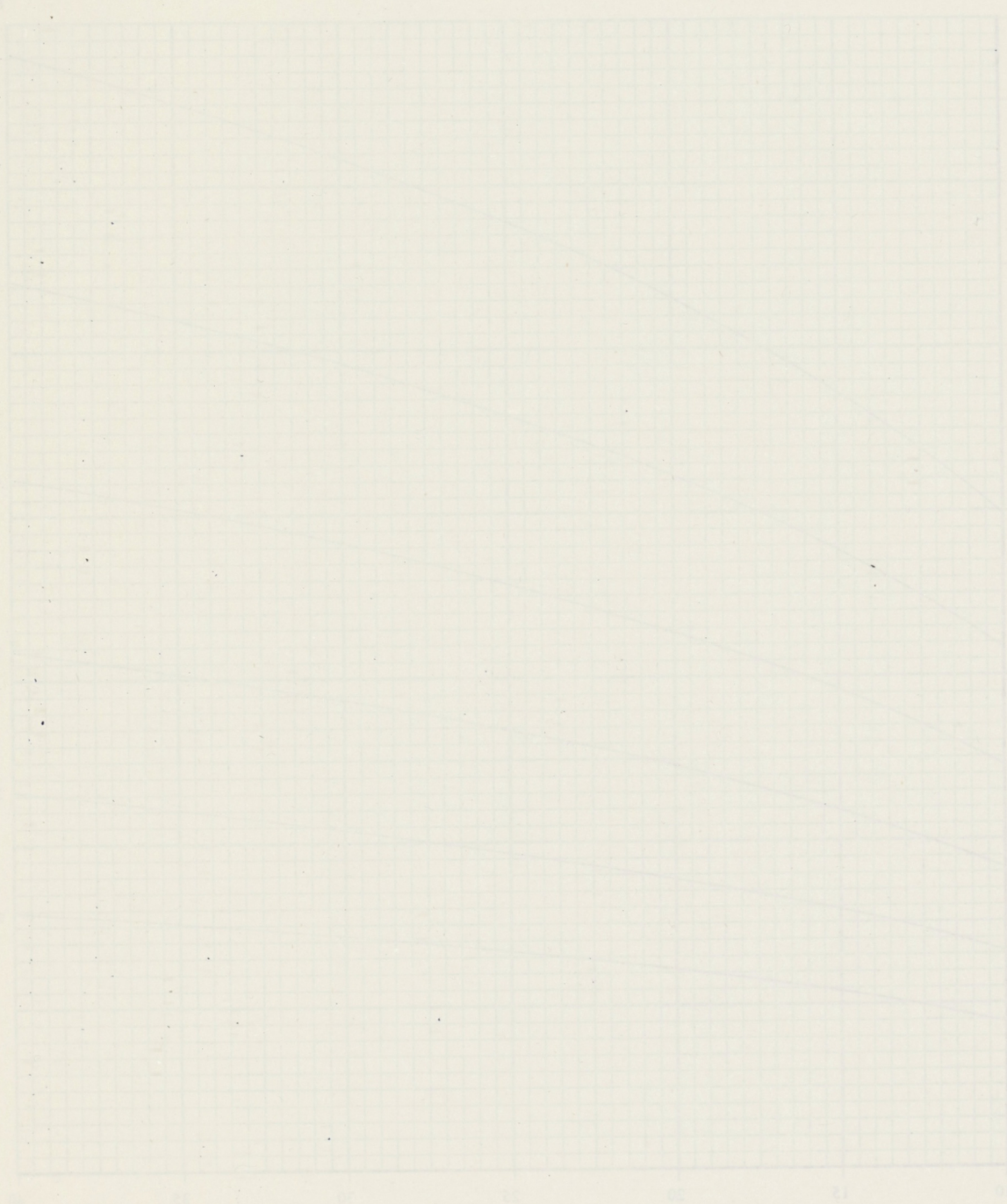
MOMENT OF INERTIA OF T - SECTIONS (PEINER)

(WITH PLATING)



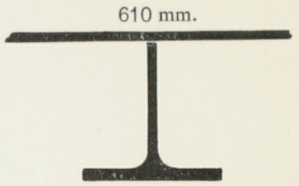
Cut from Peiner 750 Profile, Flange 21 mm. Web 13 mm.



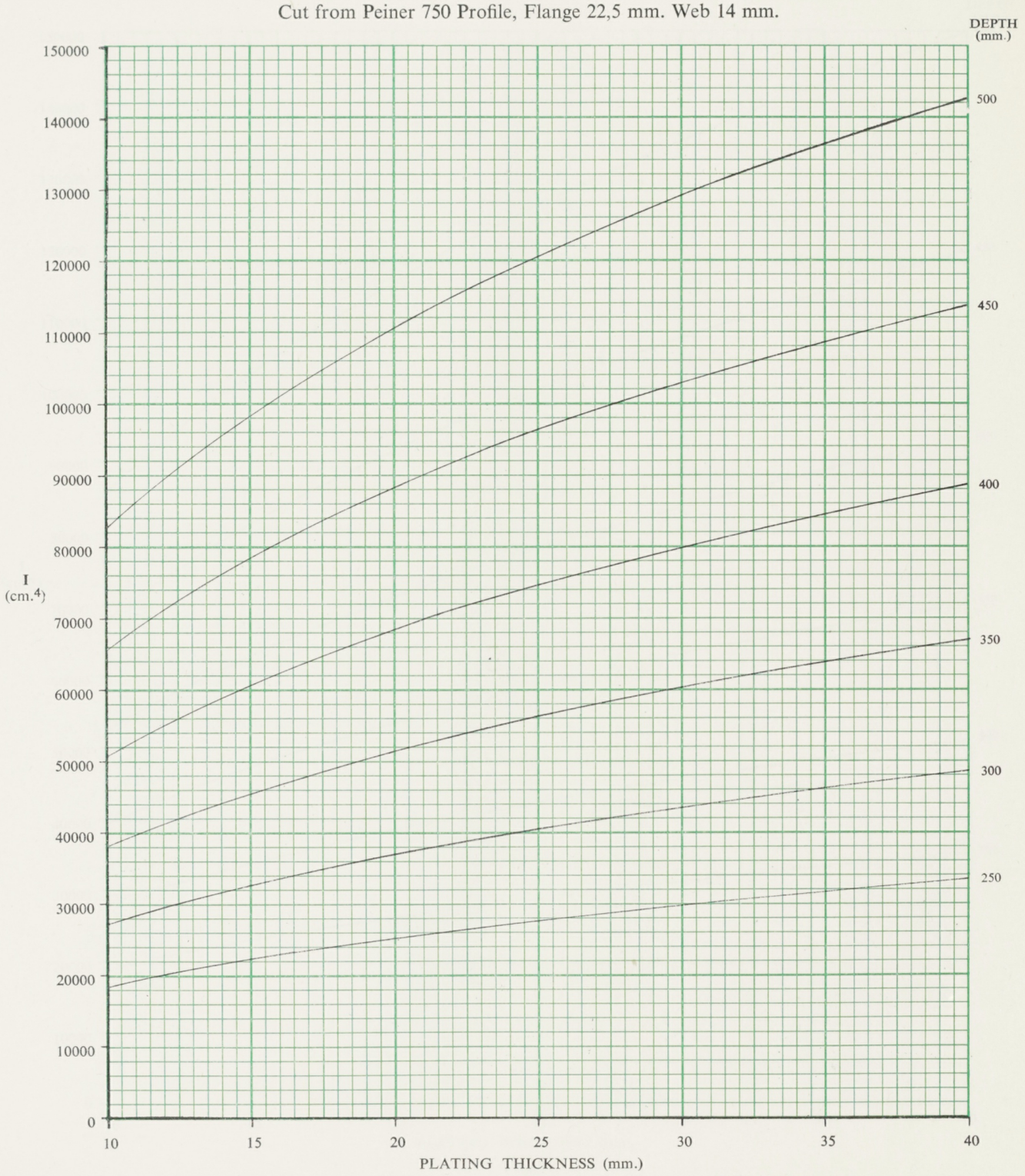


MOMENT OF INERTIA OF T - SECTIONS (PEINER)

(WITH PLATING)

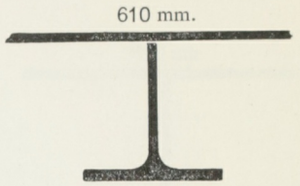


Cut from Peiner 750 Profile, Flange 22,5 mm. Web 14 mm.

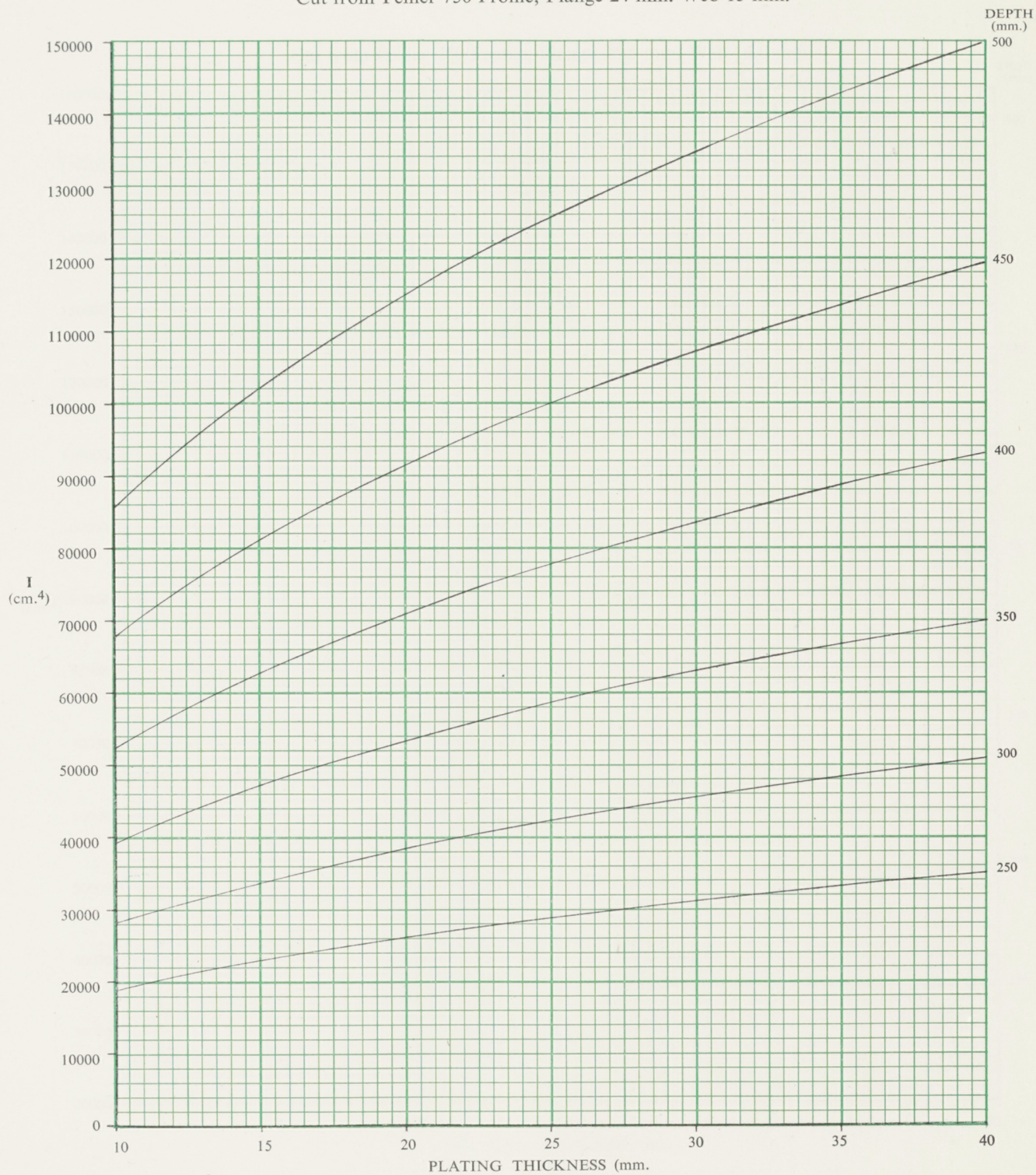


MOMENT OF INERTIA OF T - SECTIONS (PEINER)

(WITH PLATING)

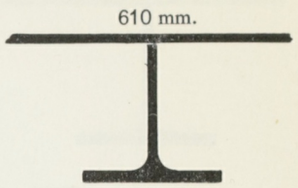


Cut from Peiner 750 Profile, Flange 24 mm. Web 15 mm.

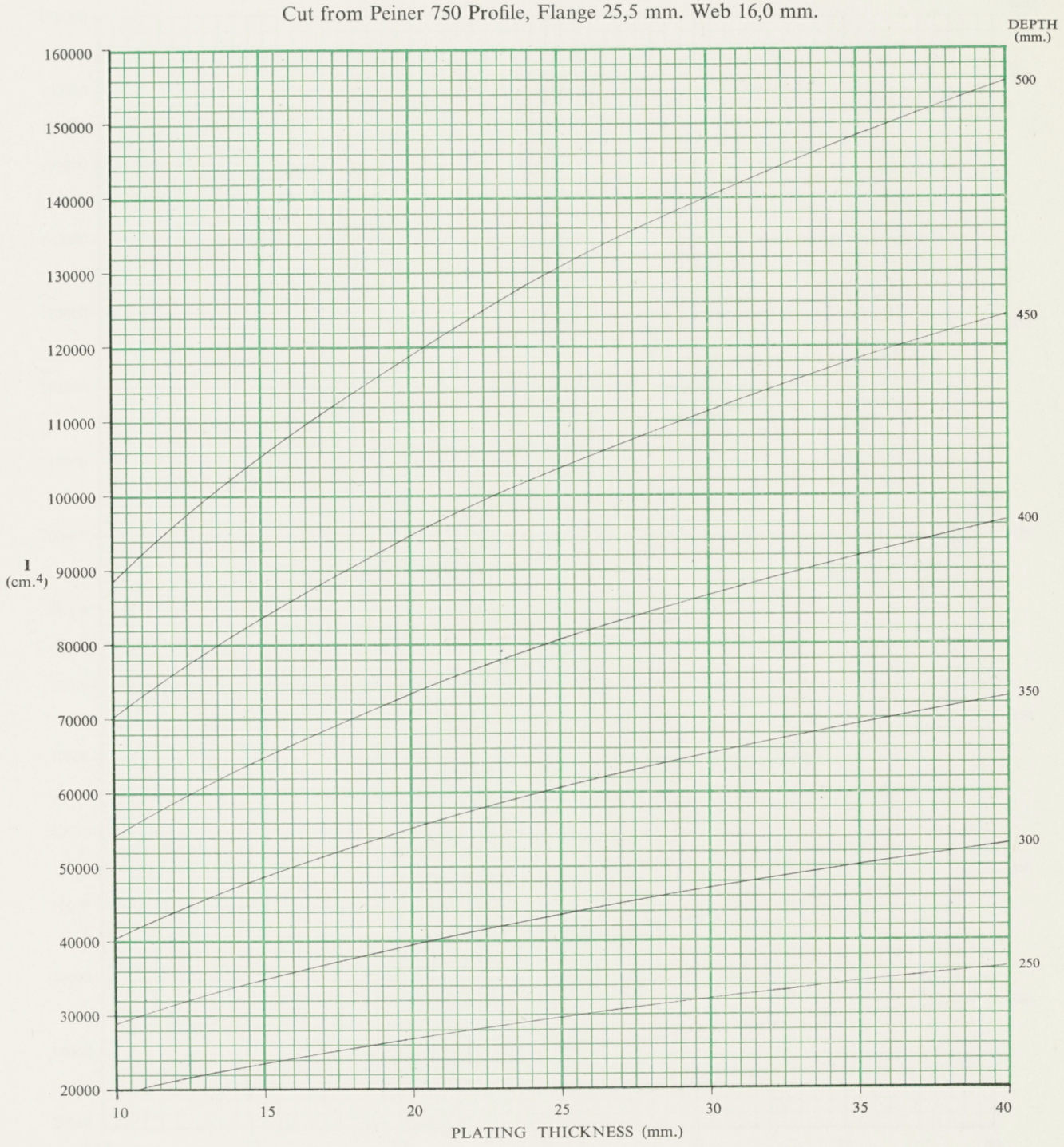


MOMENT OF INERTIA OF T - SECTIONS (PEINER)

(WITH PLATING)

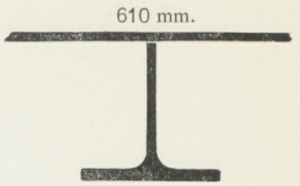


Cut from Peiner 750 Profile, Flange 25,5 mm. Web 16,0 mm.

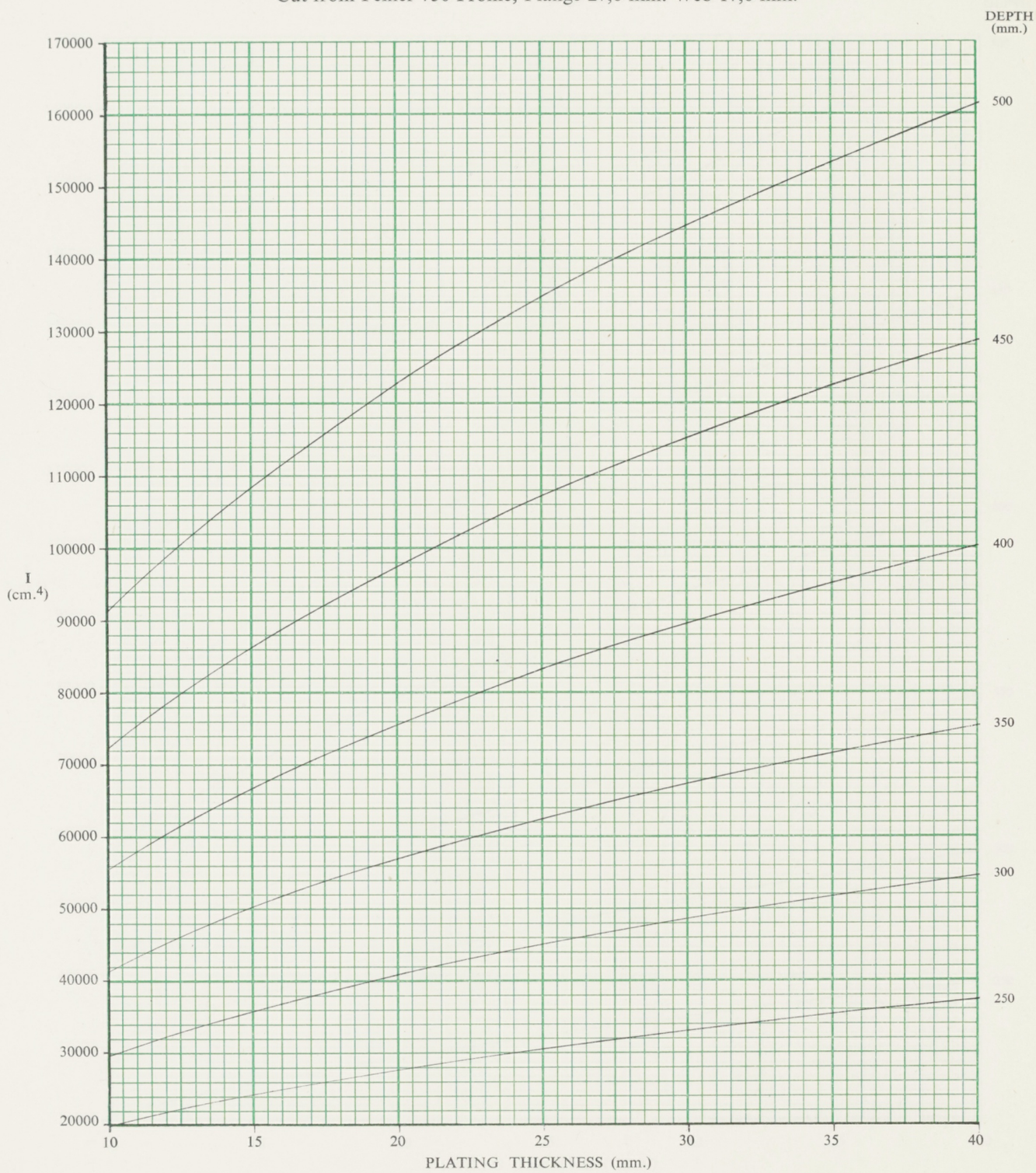


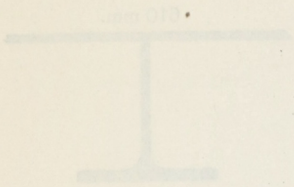
MOMENT OF INERTIA OF T - SECTIONS (PEINER)

(WITH PLATING)



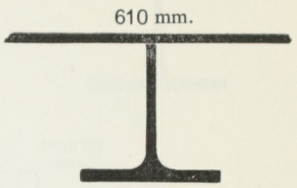
Cut from Peiner 750 Profile, Flange 27,0 mm. Web 17,0 mm.



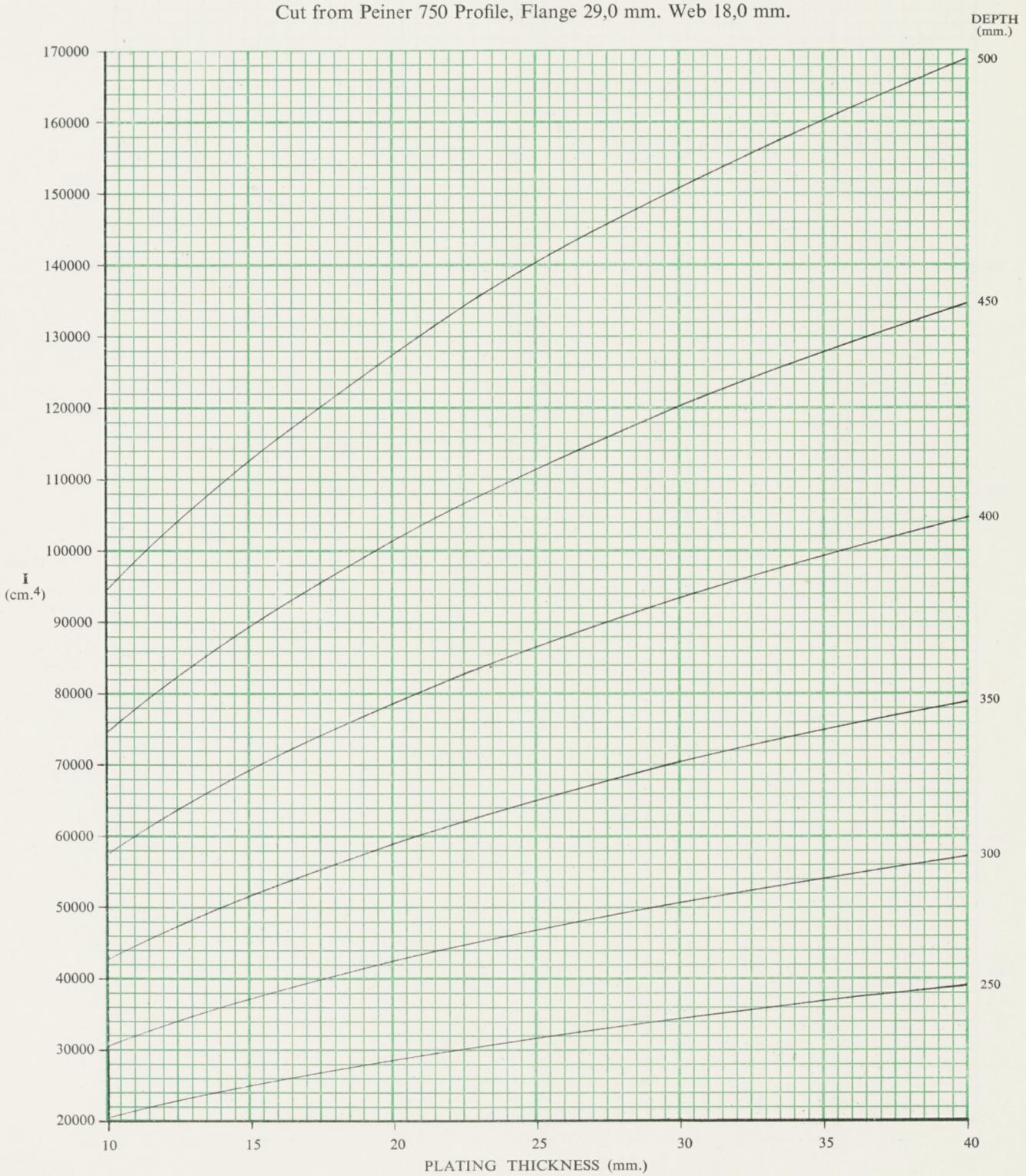


MOMENT OF INERTIA OF T - SECTIONS (PEINER)

(WITH PLATING)



Cut from Peiner 750 Profile, Flange 29,0 mm. Web 18,0 mm.

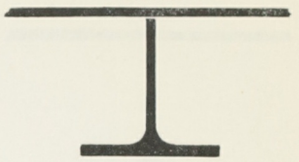


MOMENT OF INERTIA OF T - SECTIONS (PEINER)

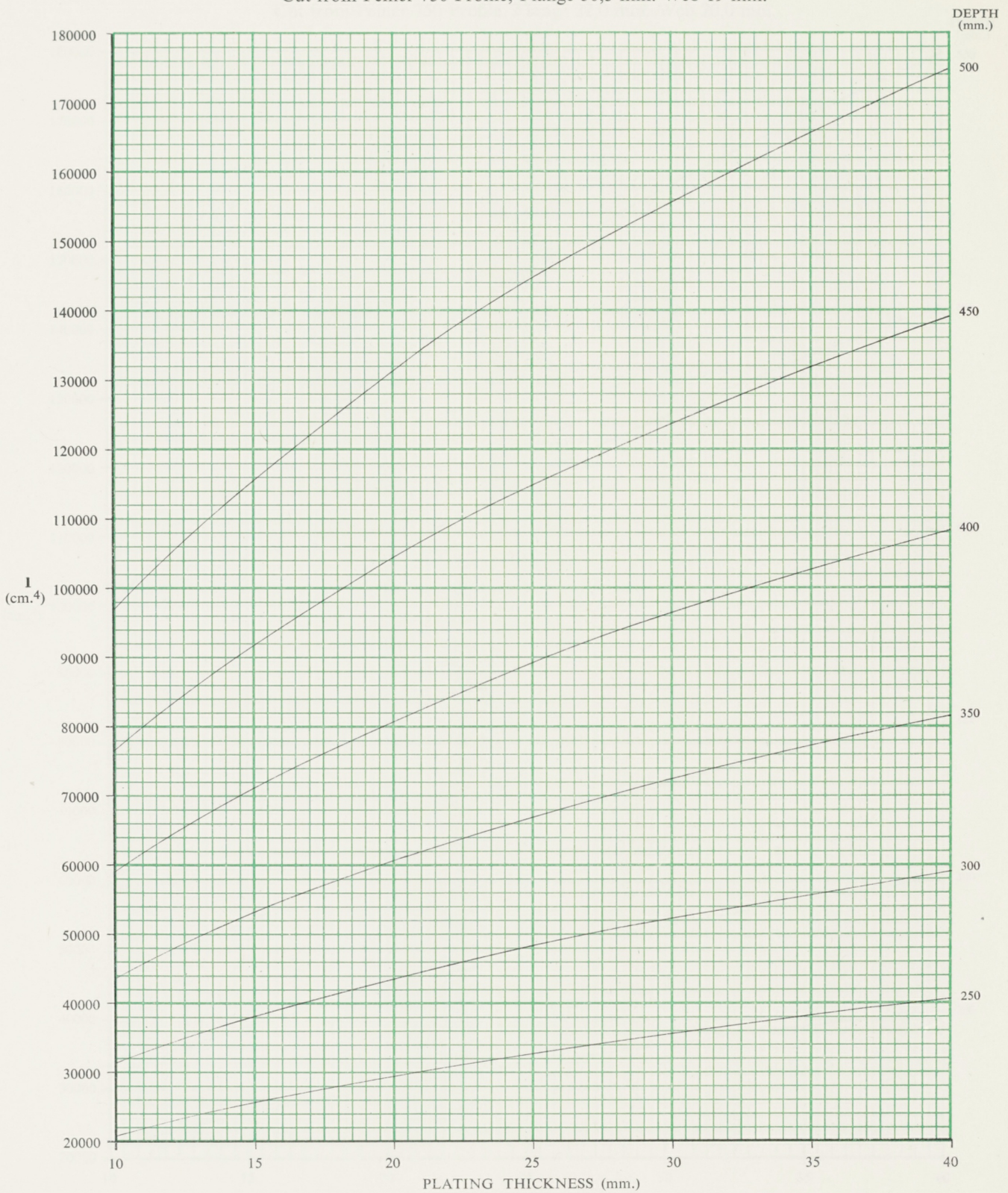
(WITH PLATING)

GERMANY

610 mm.

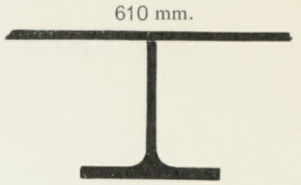


Cut from Peiner 750 Profile, Flange 30,5 mm. Web 19 mm.

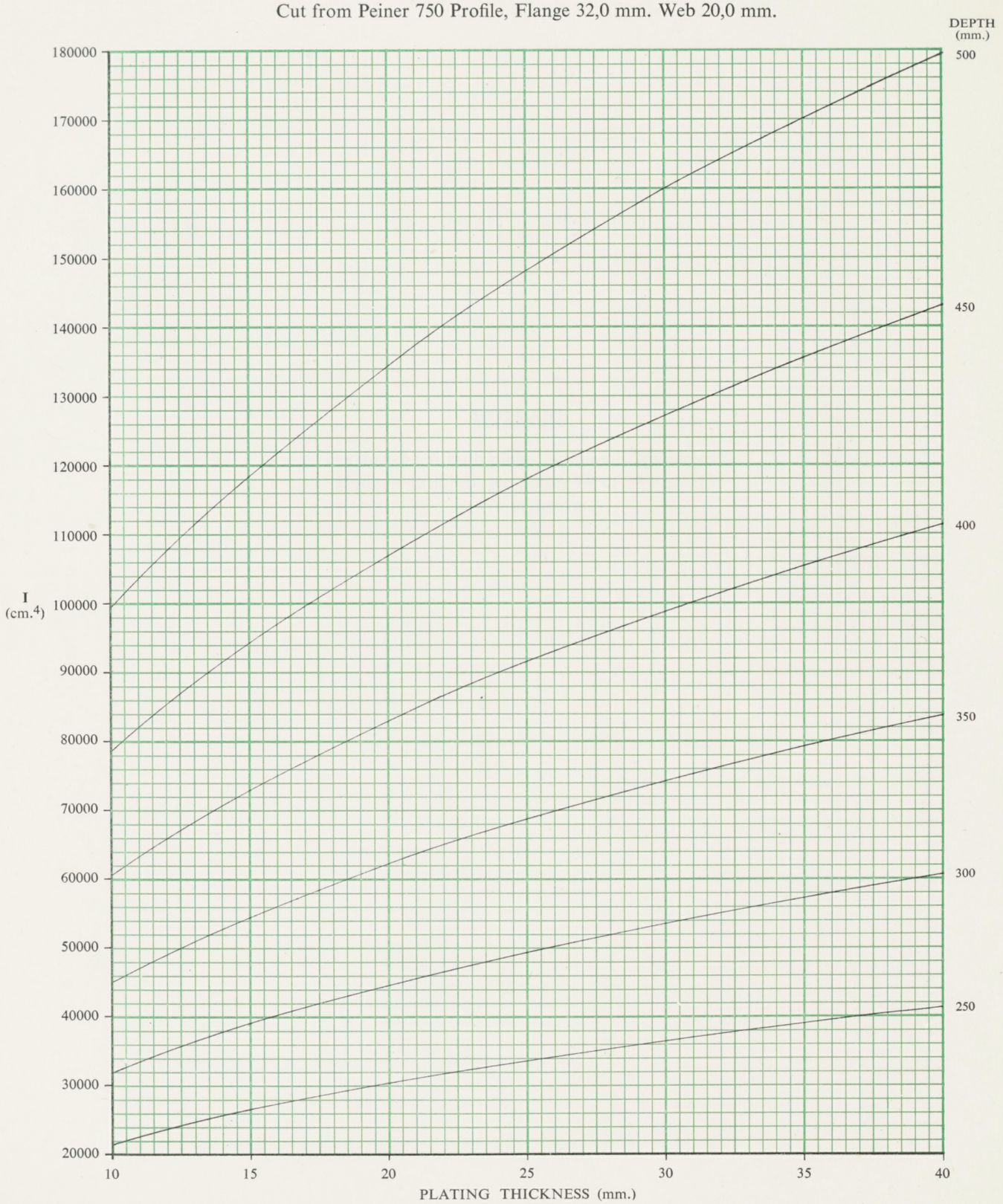


MOMENT OF INERTIA OF T - SECTIONS (PEINER)

(WITH PLATING)



Cut from Peiner 750 Profile, Flange 32,0 mm. Web 20,0 mm.

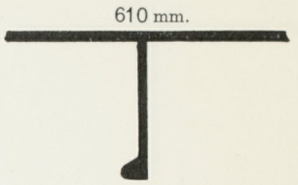


HOLLAND

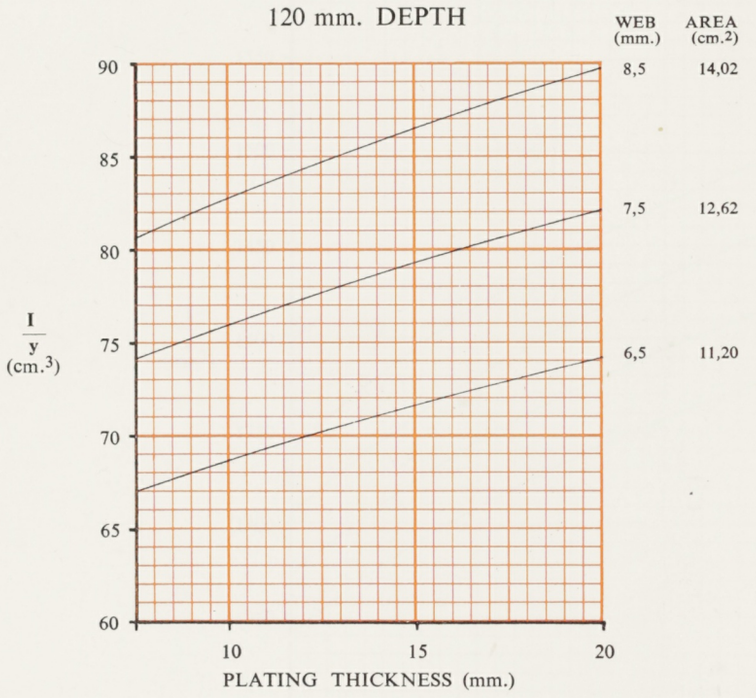
For one-sided bulb plates commonly known as "Holland Profiles" see plates 74 to 84 and 163 to 176 inclusive

SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

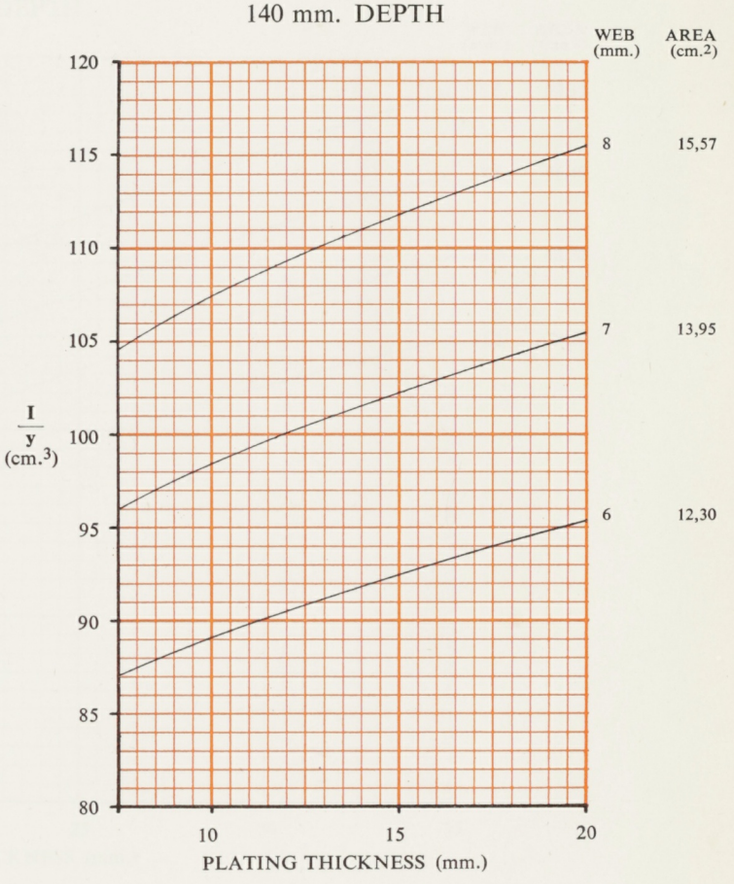
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

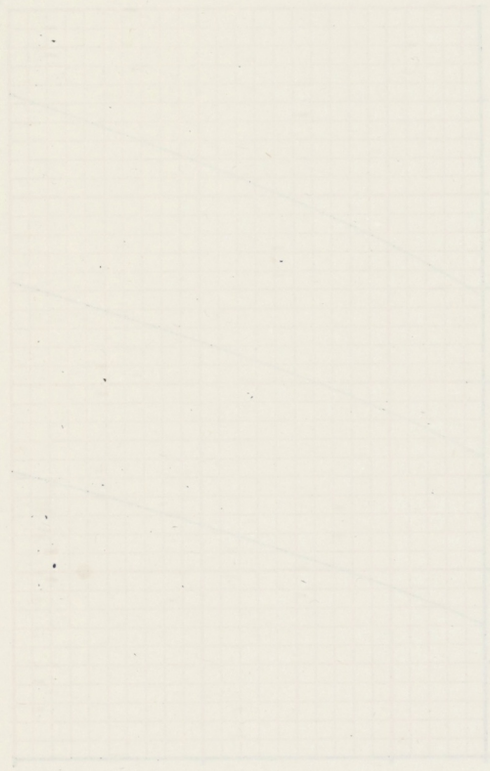


120 mm. DEPTH



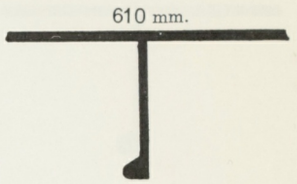
140 mm. DEPTH



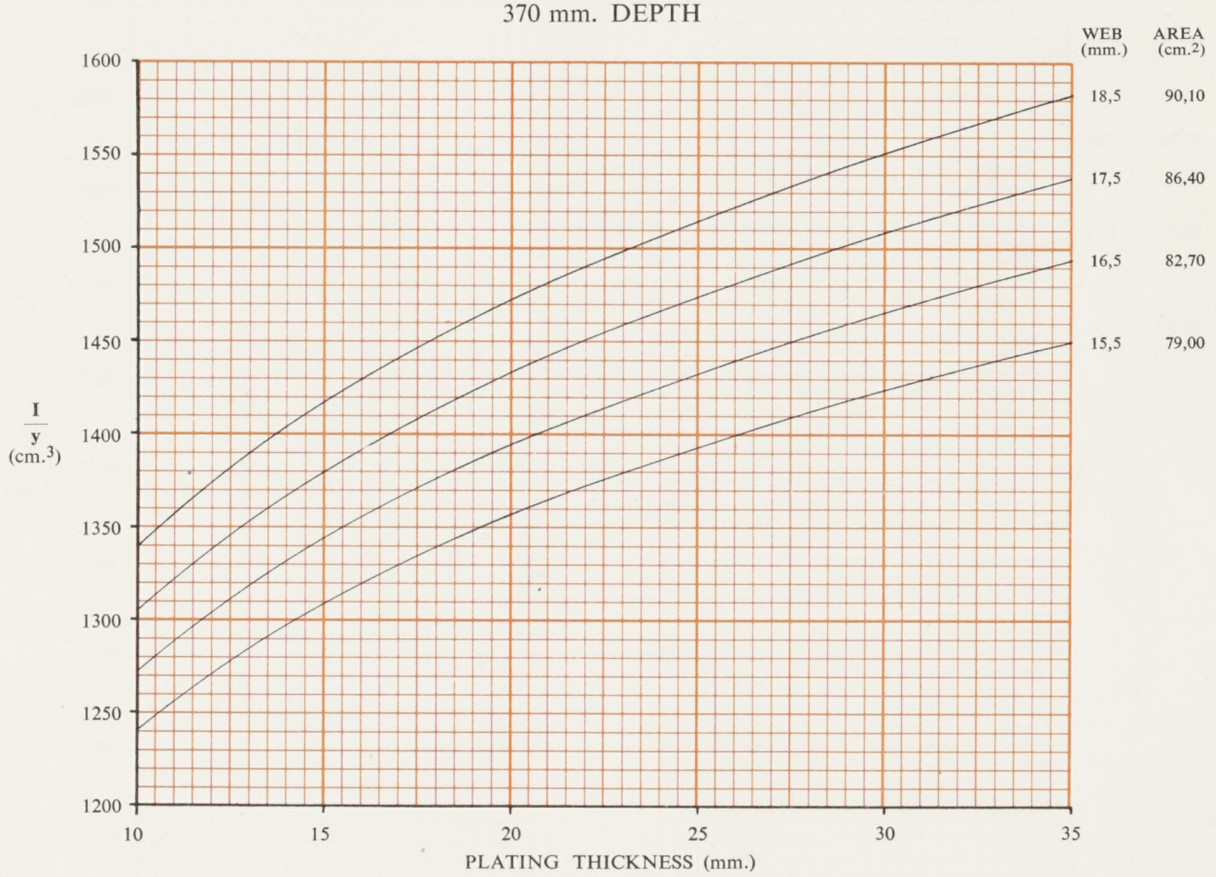


SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

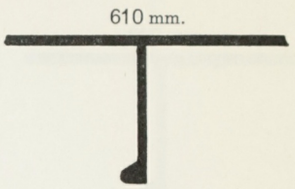


370 mm. DEPTH

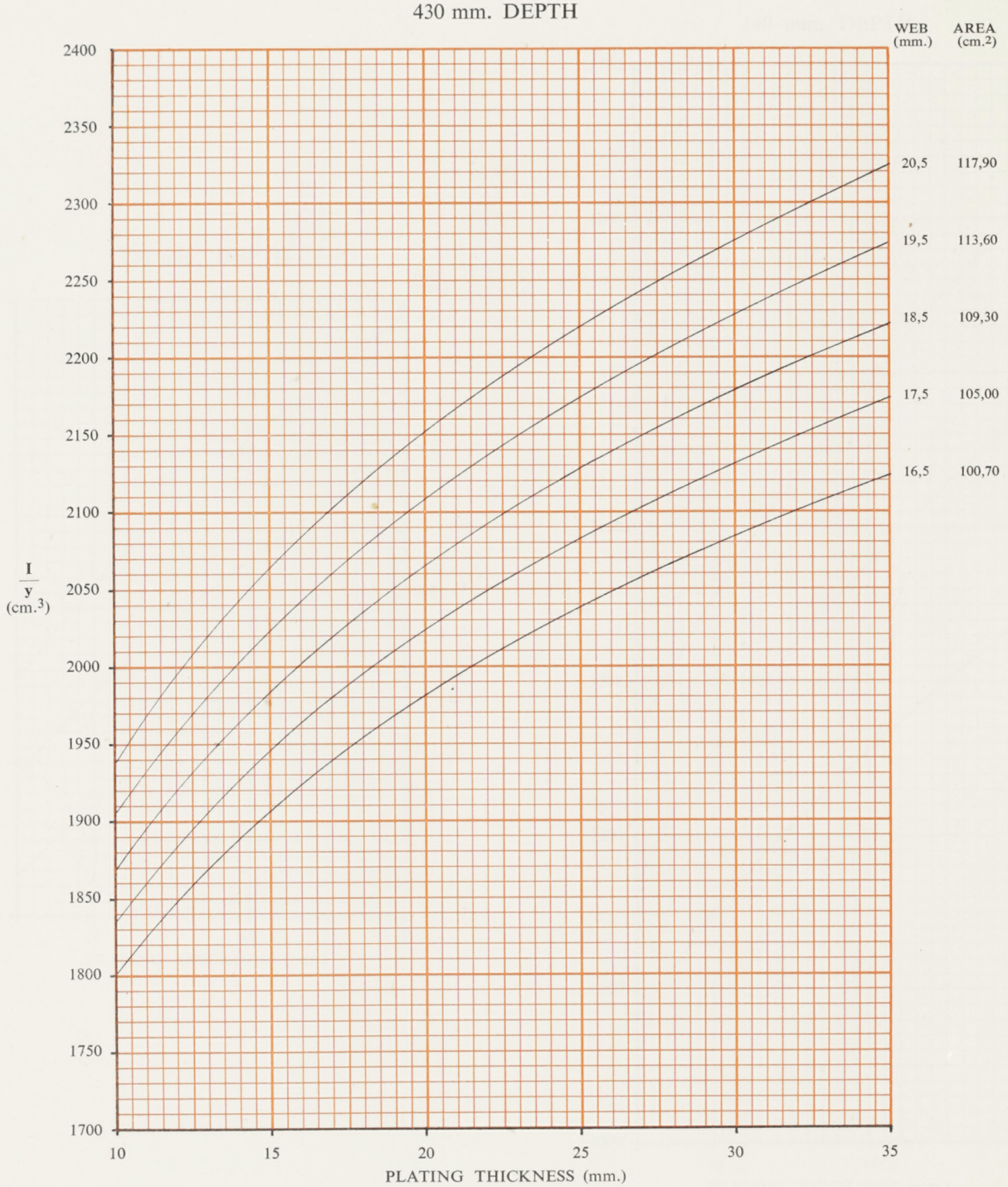


SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

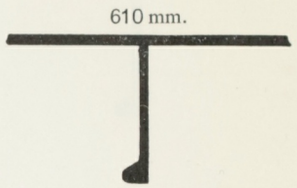


430 mm. DEPTH

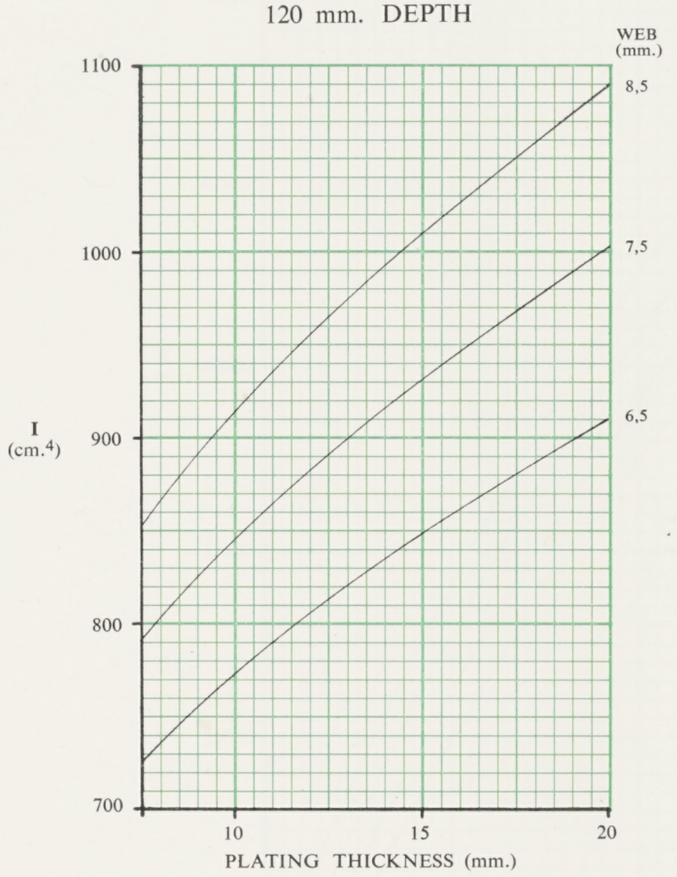


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

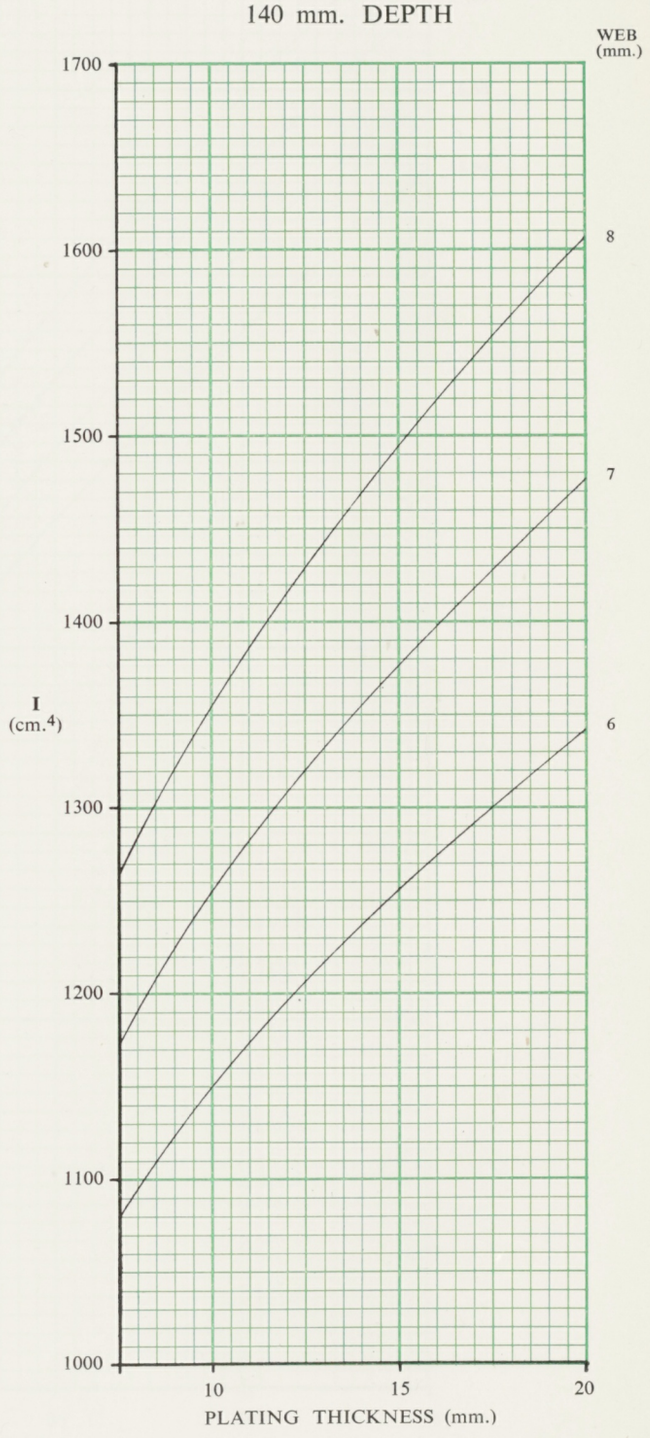
(WITH PLATING)

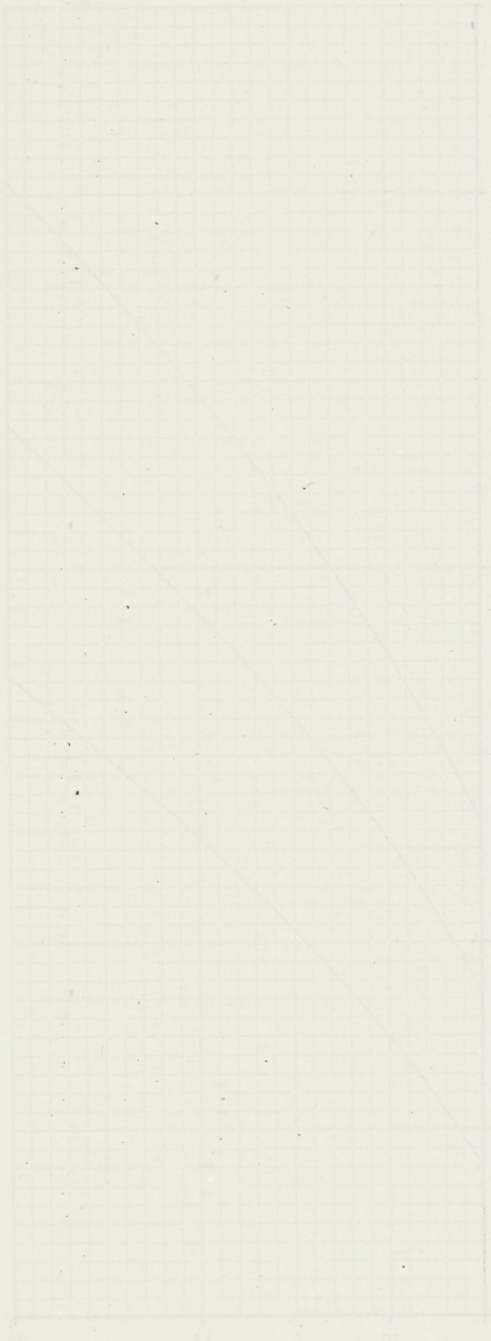


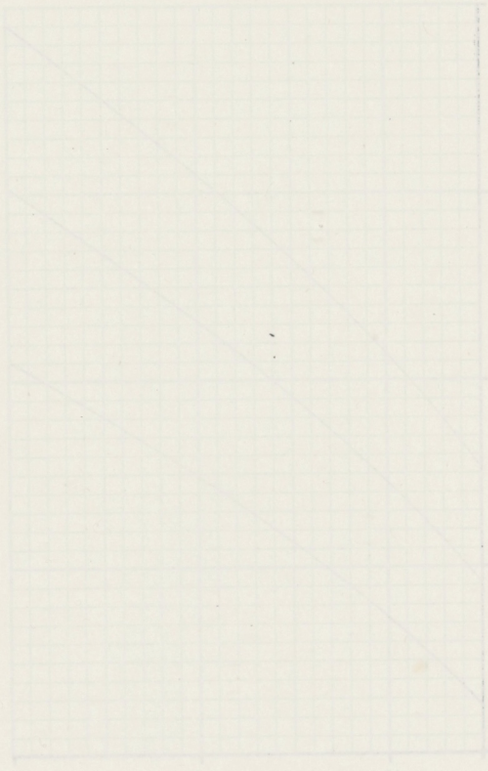
120 mm. DEPTH



140 mm. DEPTH

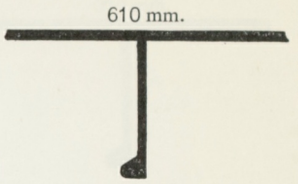




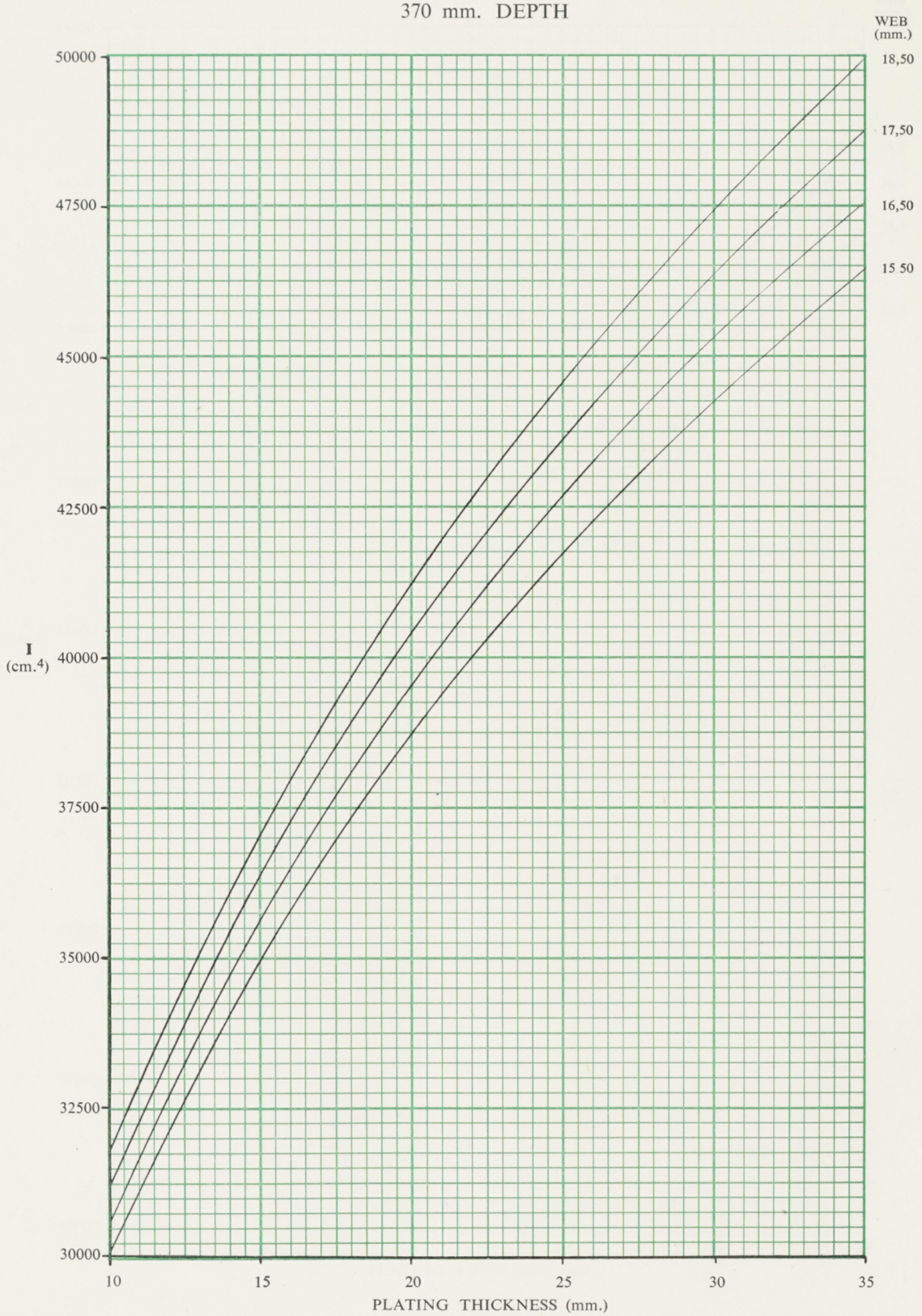


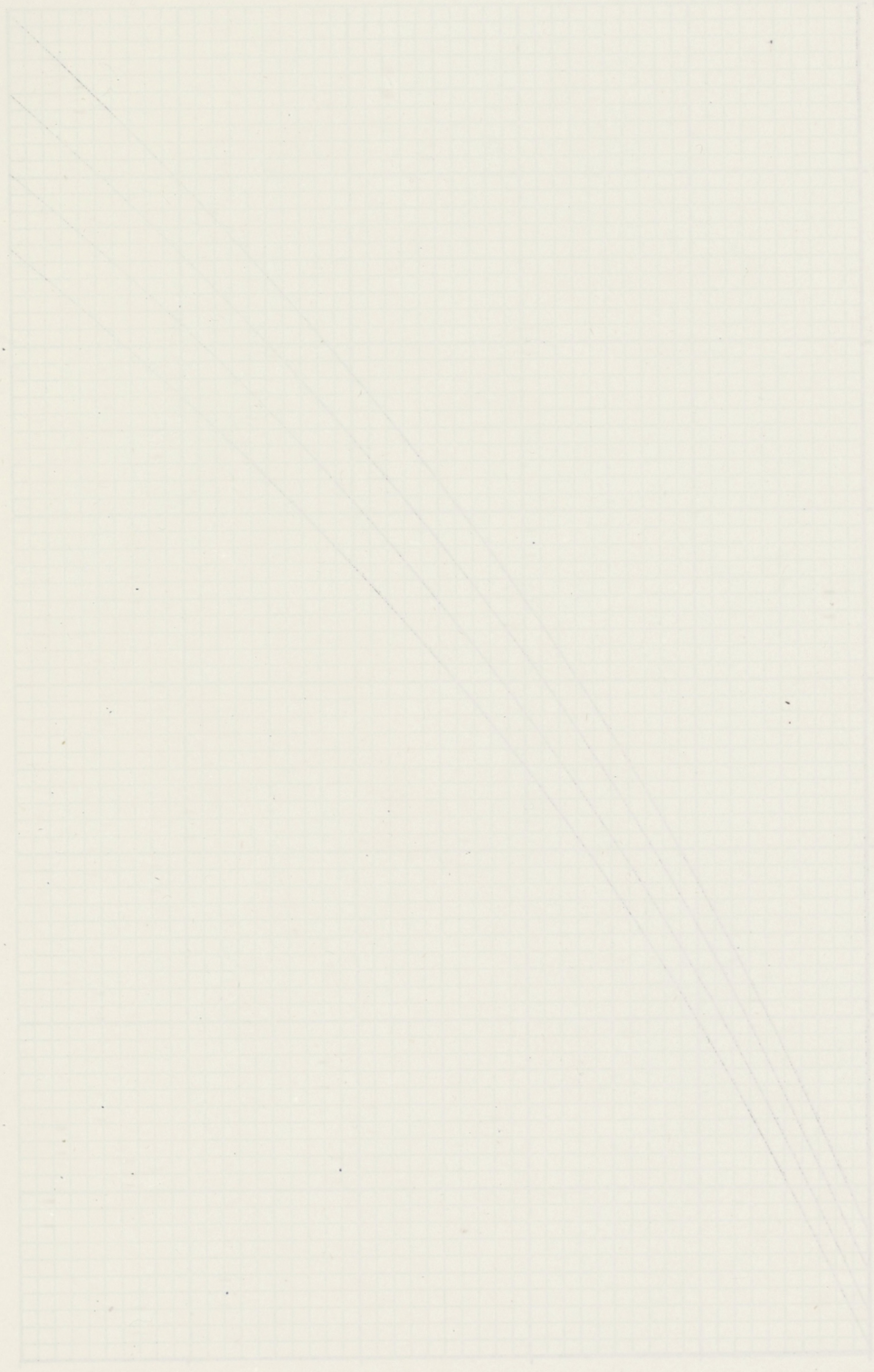
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)



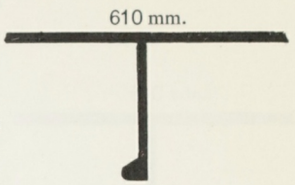
370 mm. DEPTH



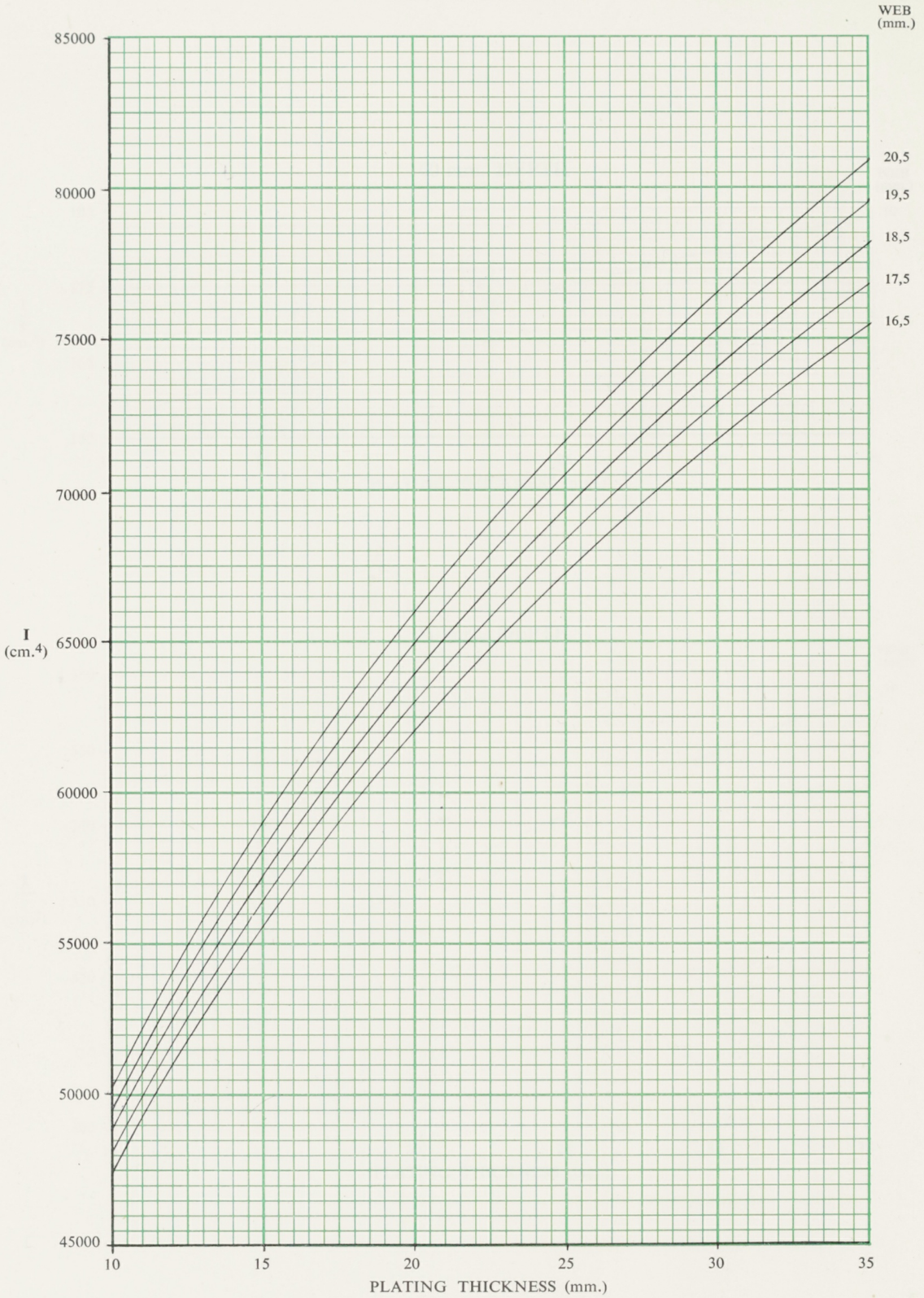


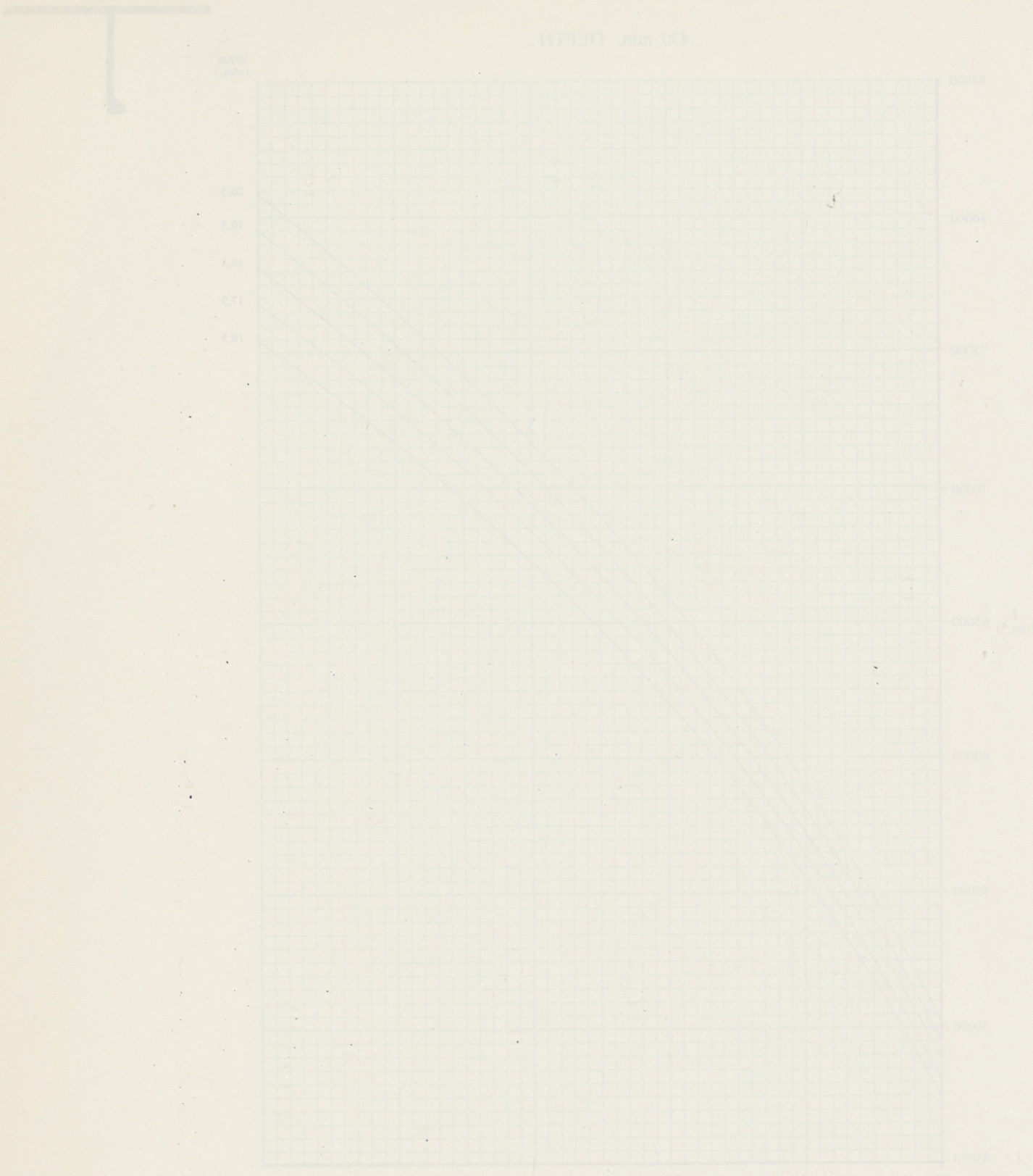
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)



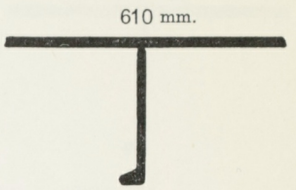
430 mm. DEPTH





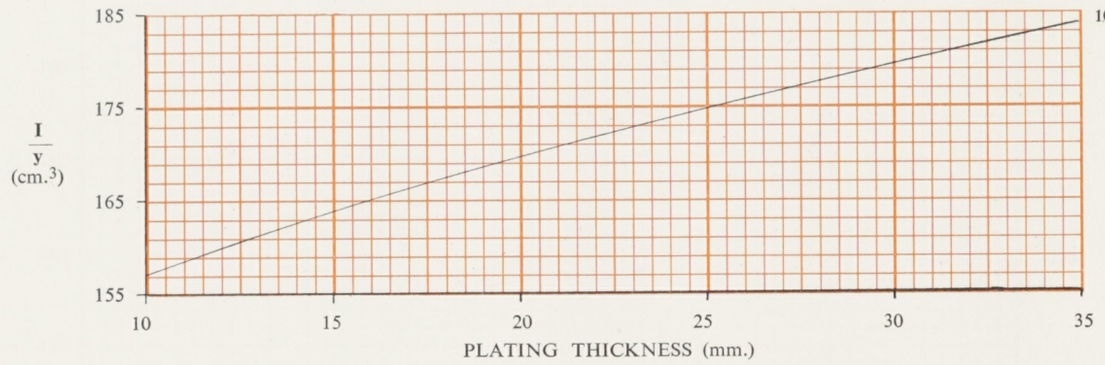
SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



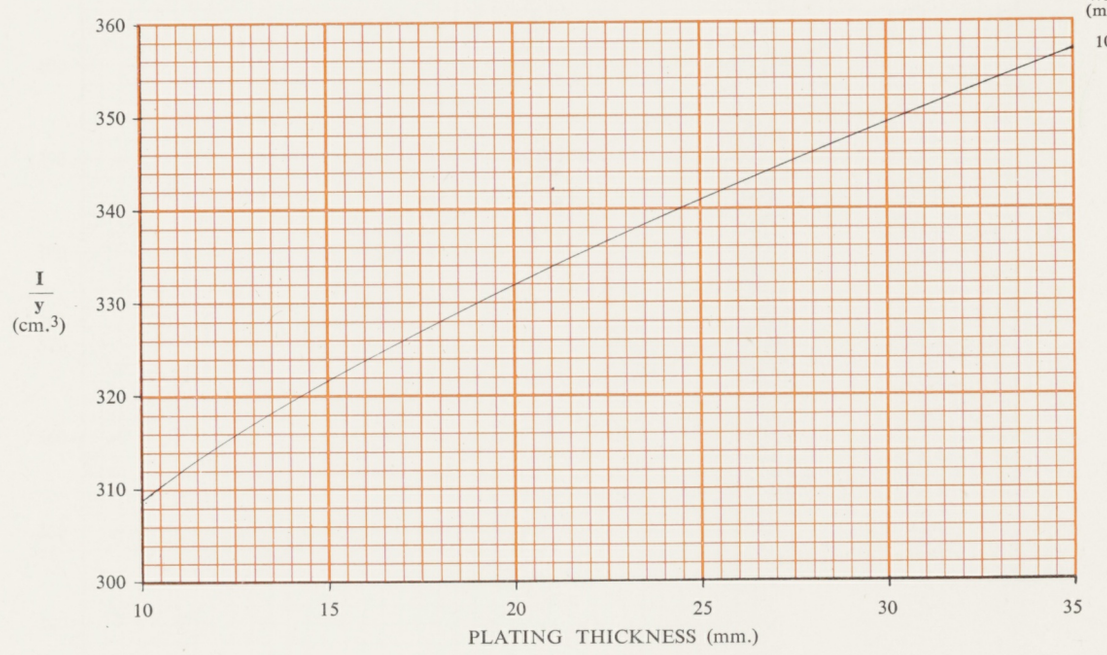
160 mm. DEPTH

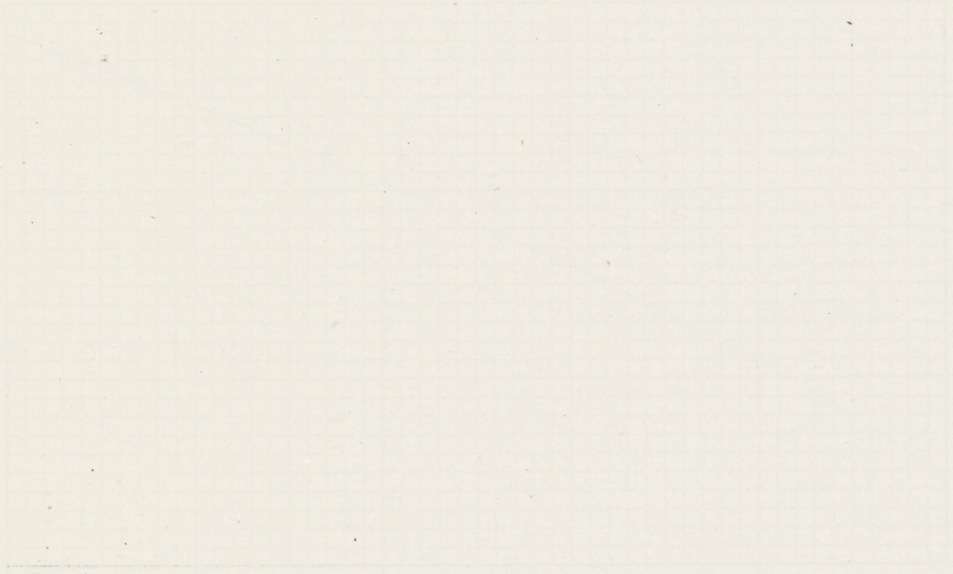
WEB (mm.)	AREA (cm.²)
10	21,16



180 mm. DEPTH

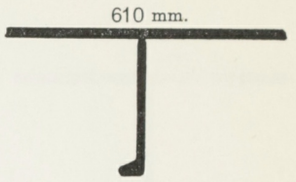
WEB (mm.)	AREA (cm.²)
10	32,10



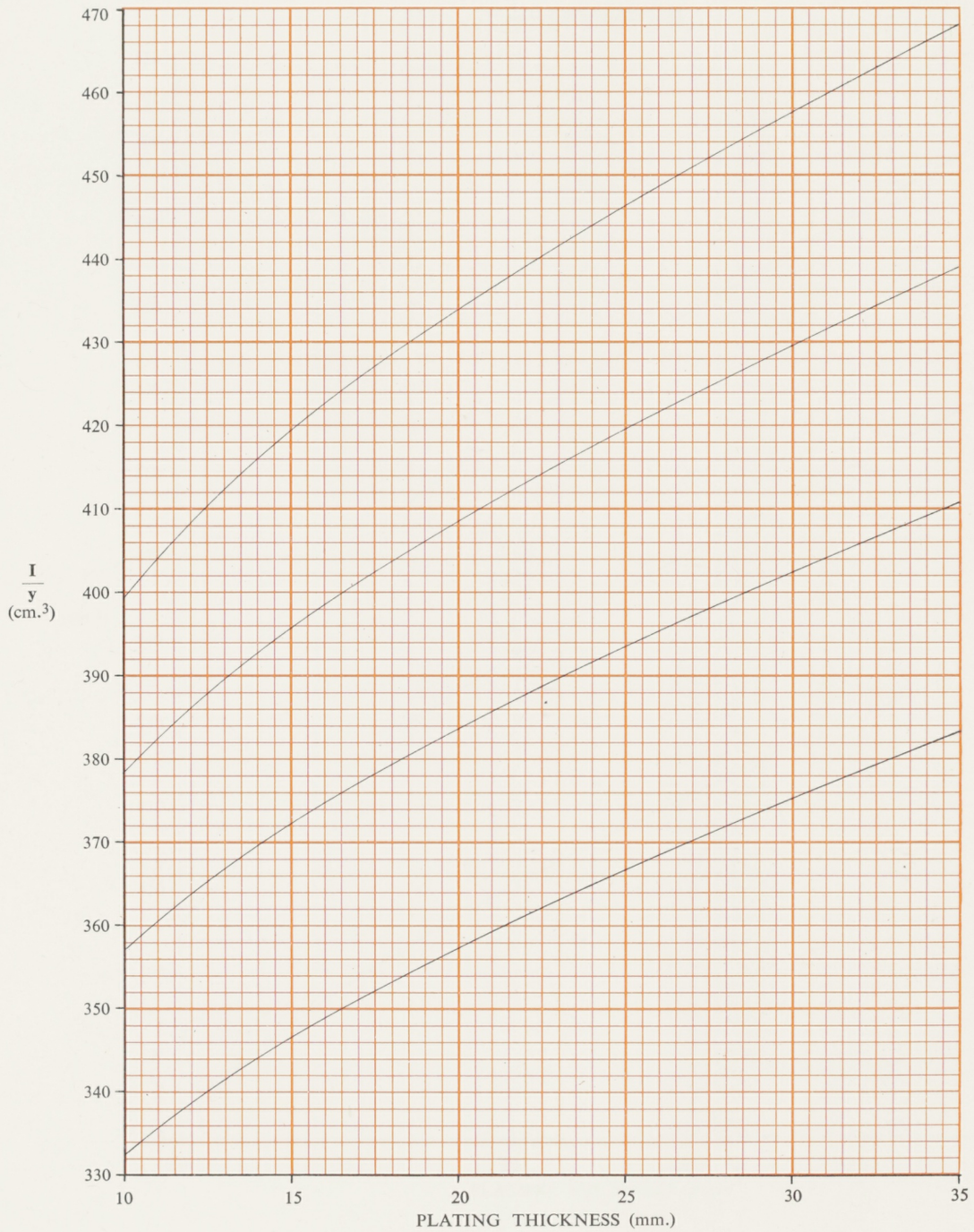


SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



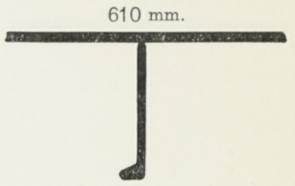
190 mm.—200 mm. DEPTH



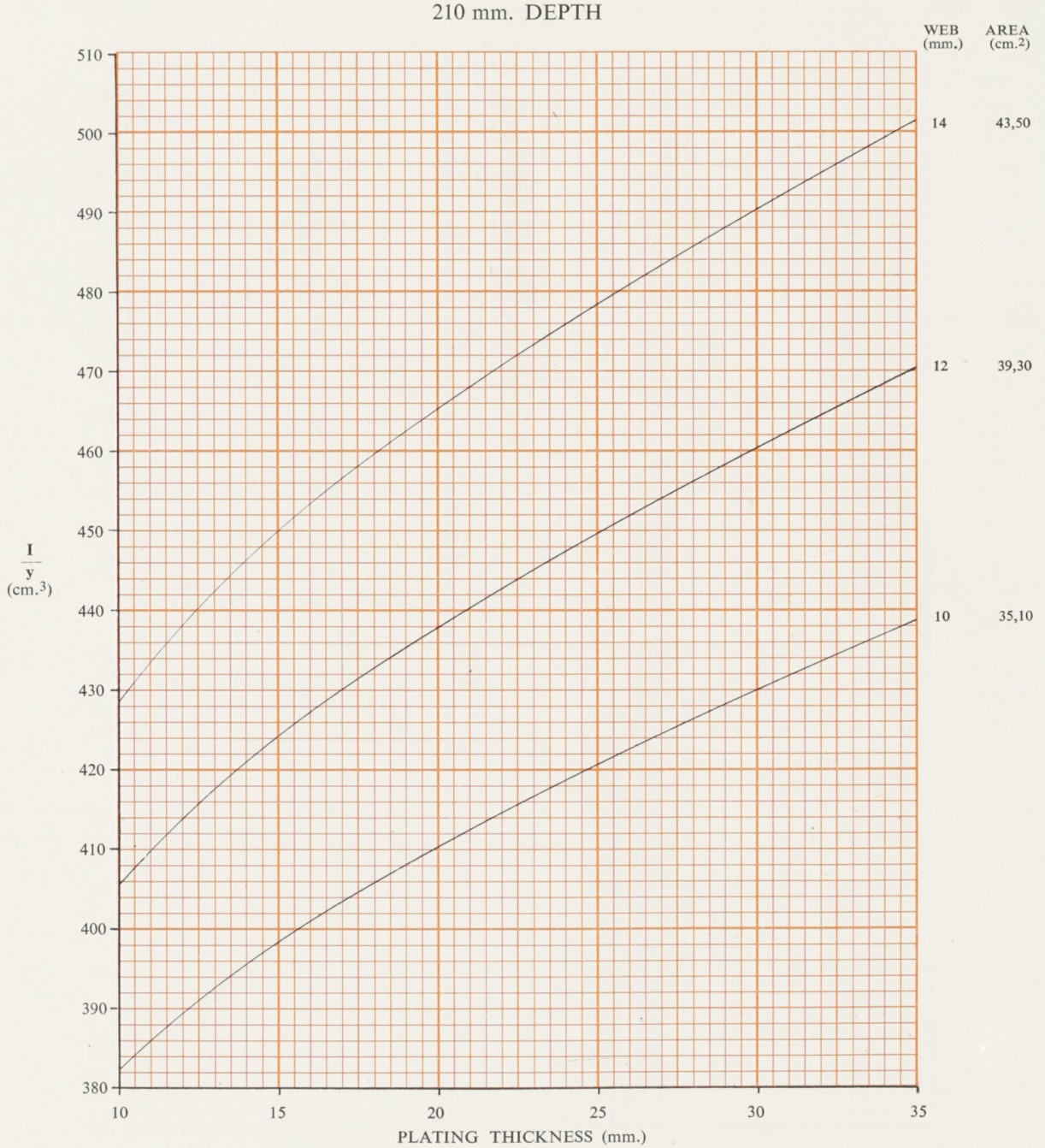
DEPTH (mm.)	WEB (mm.)	AREA (cm.2)
200	14	42,10
200	12	38,10
200	10	34,10
190	10	33,10

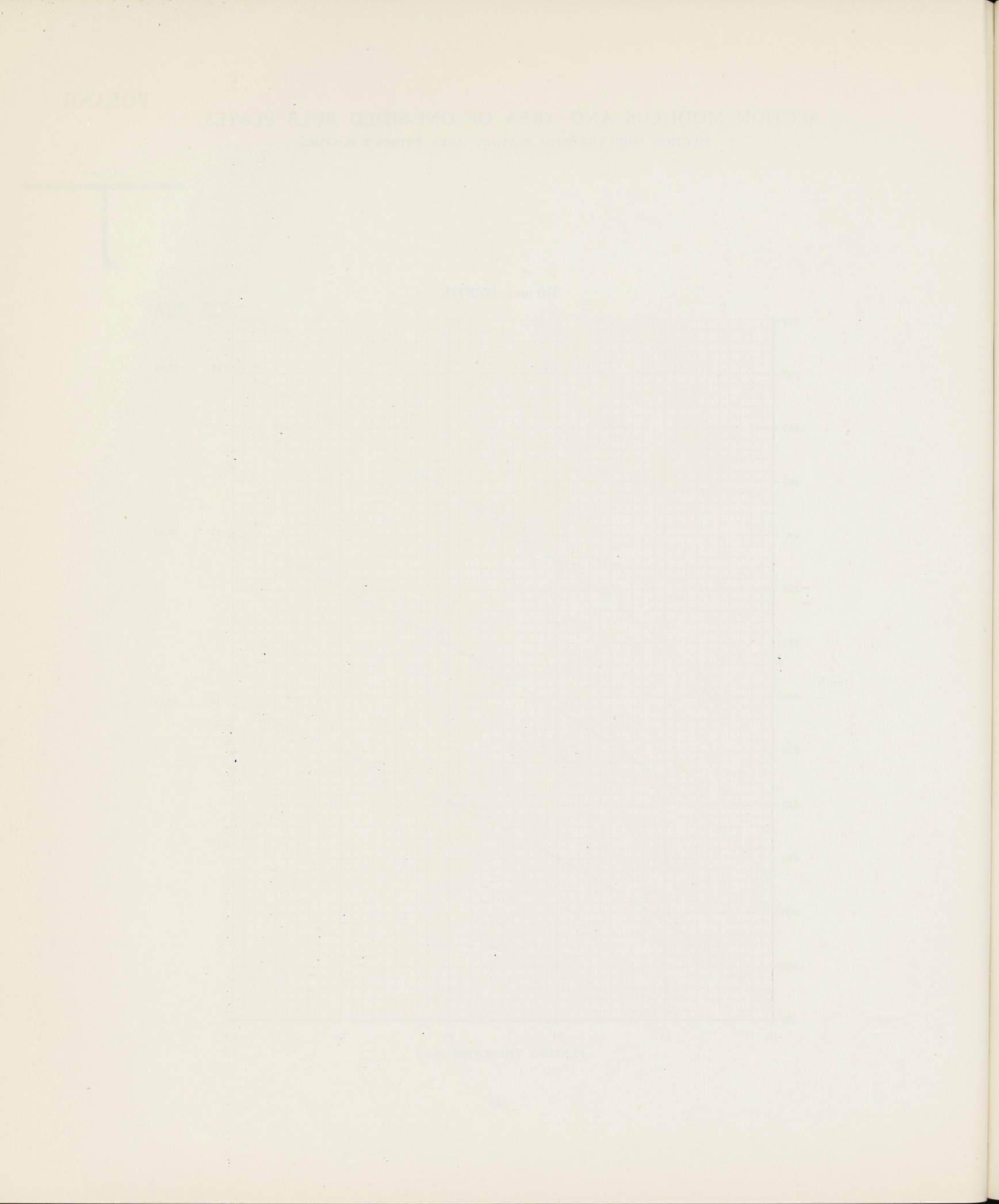
SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



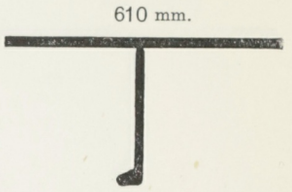
210 mm. DEPTH



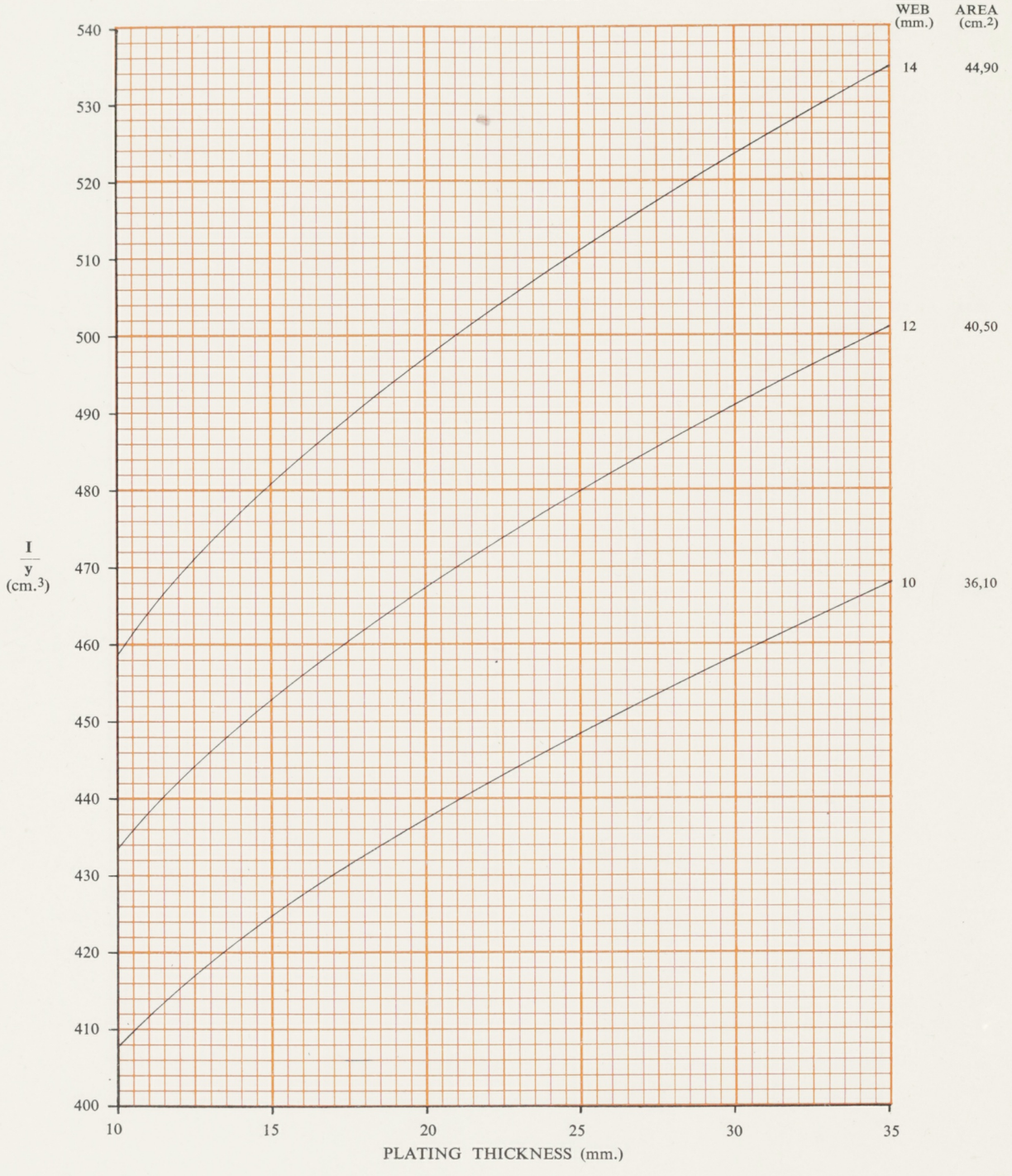


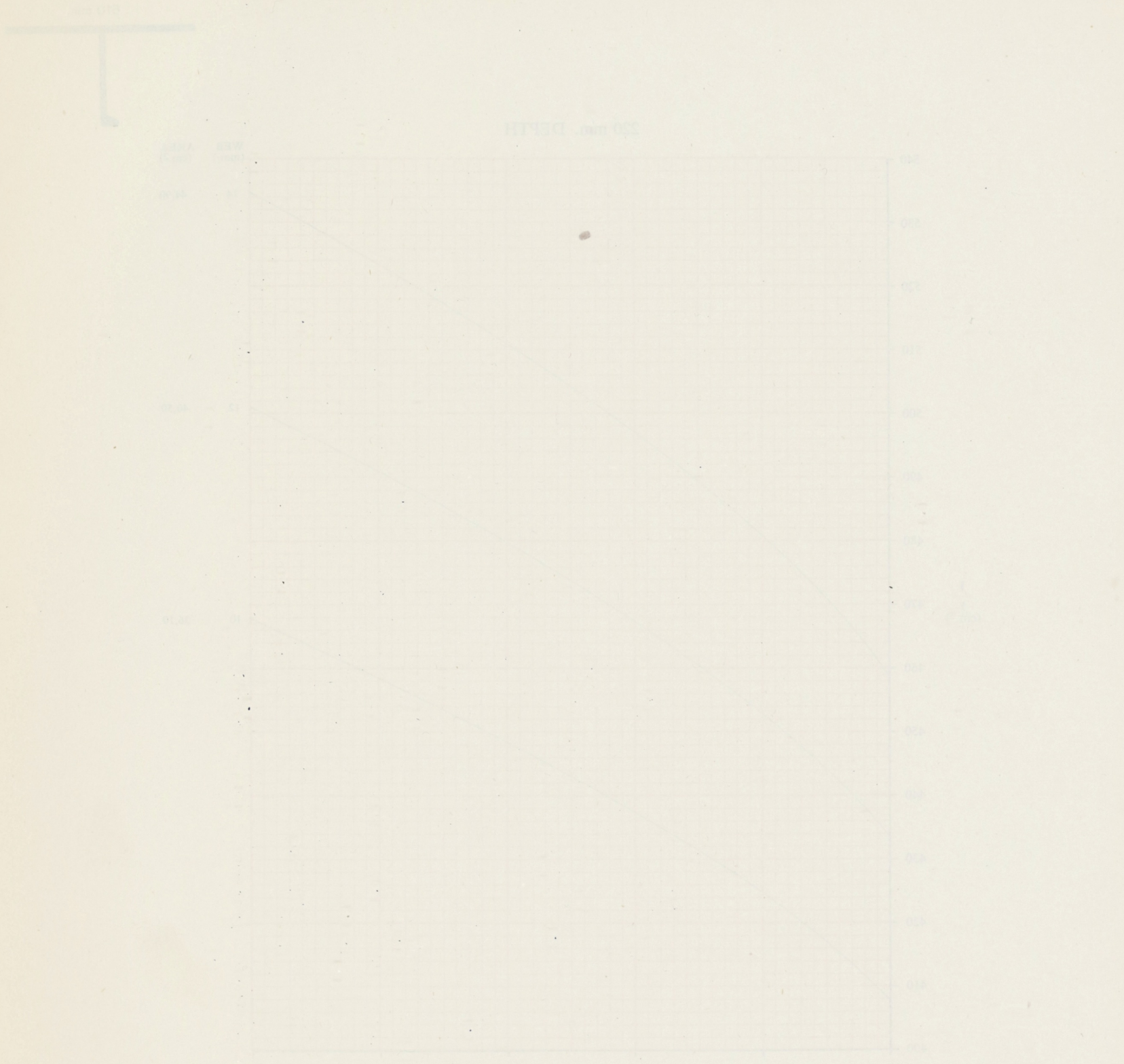
SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



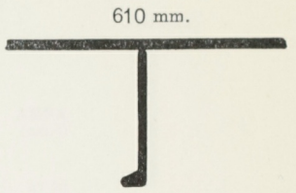
220 mm. DEPTH



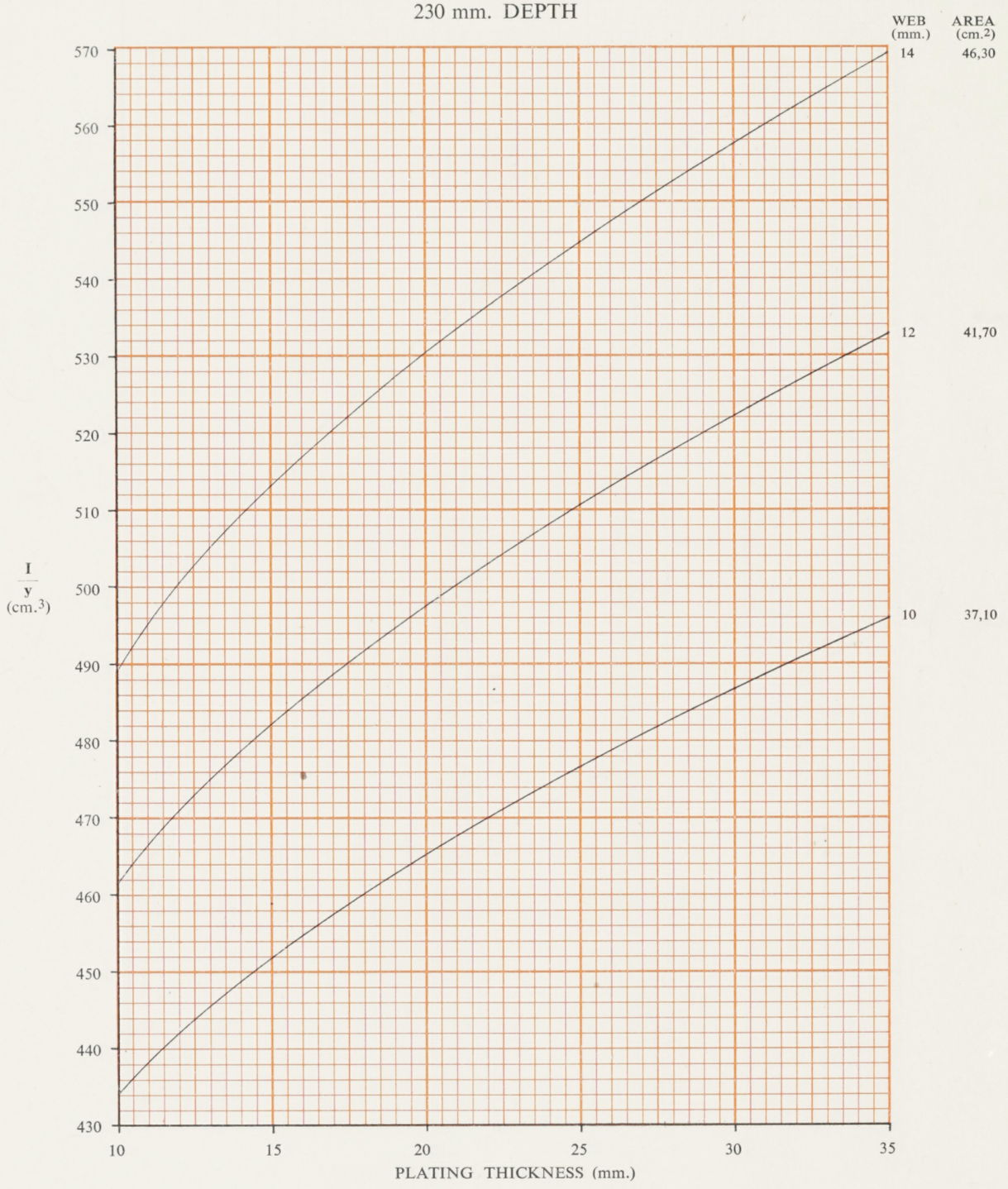


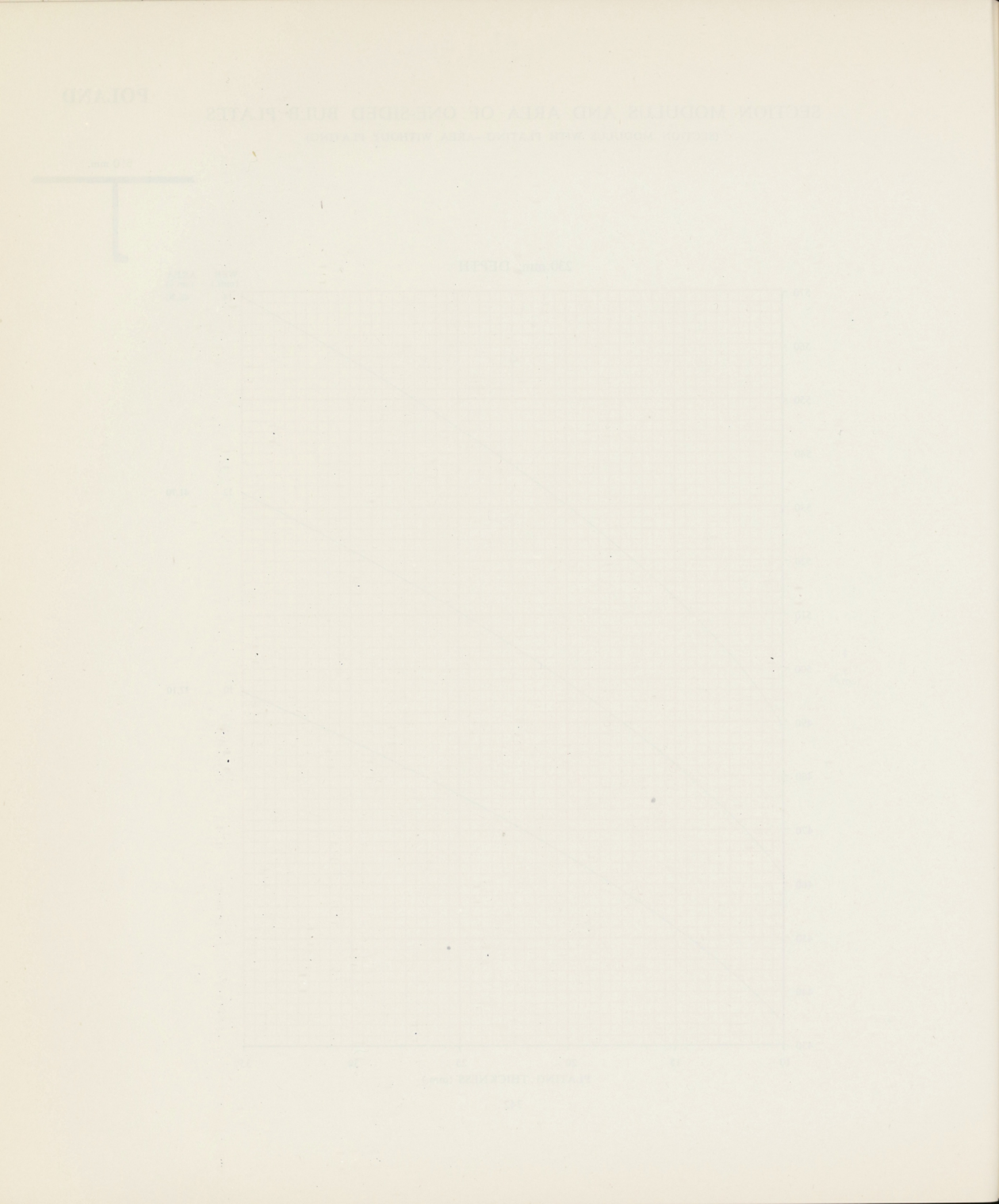
SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



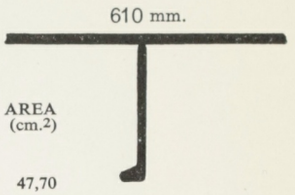
230 mm. DEPTH



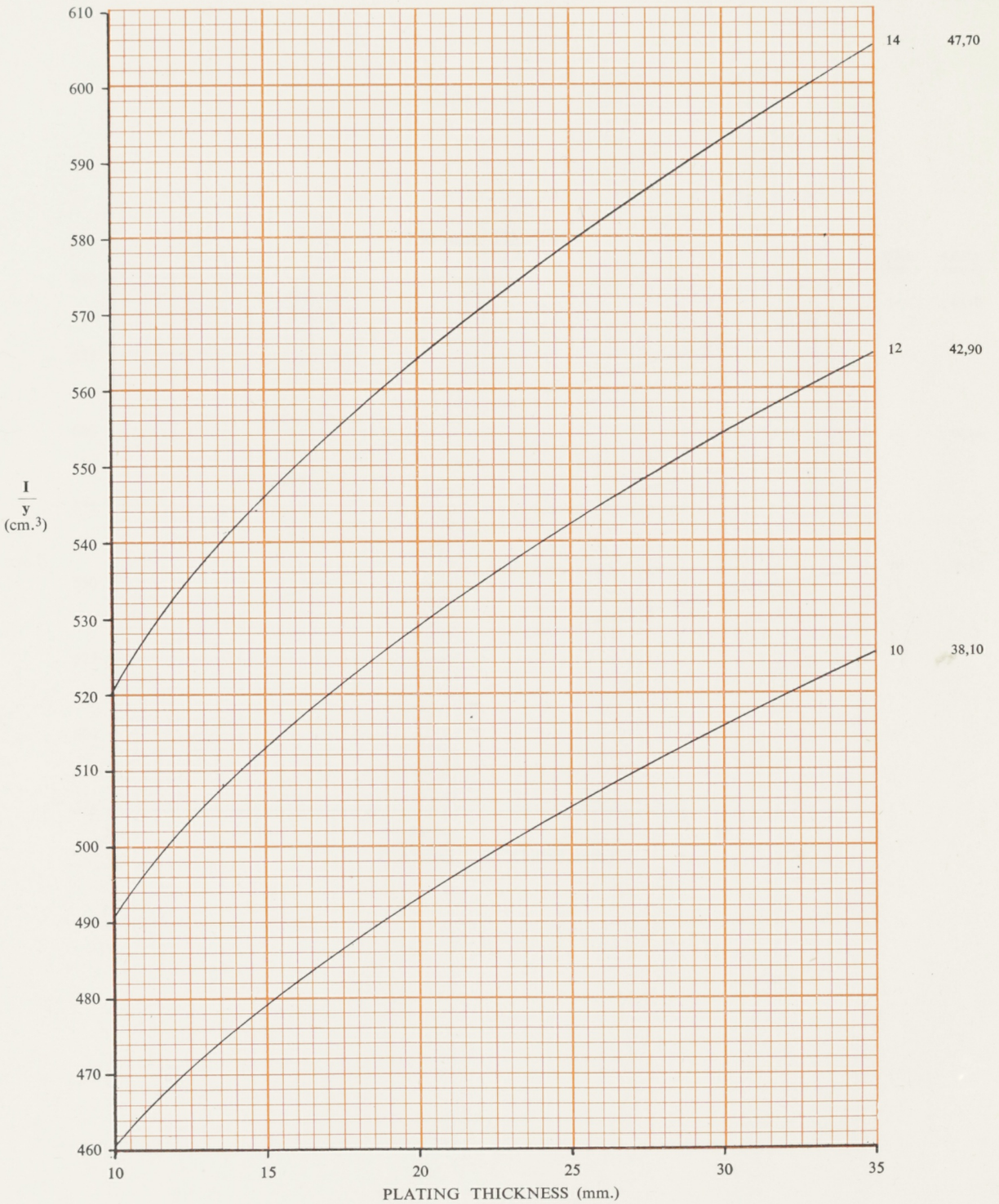


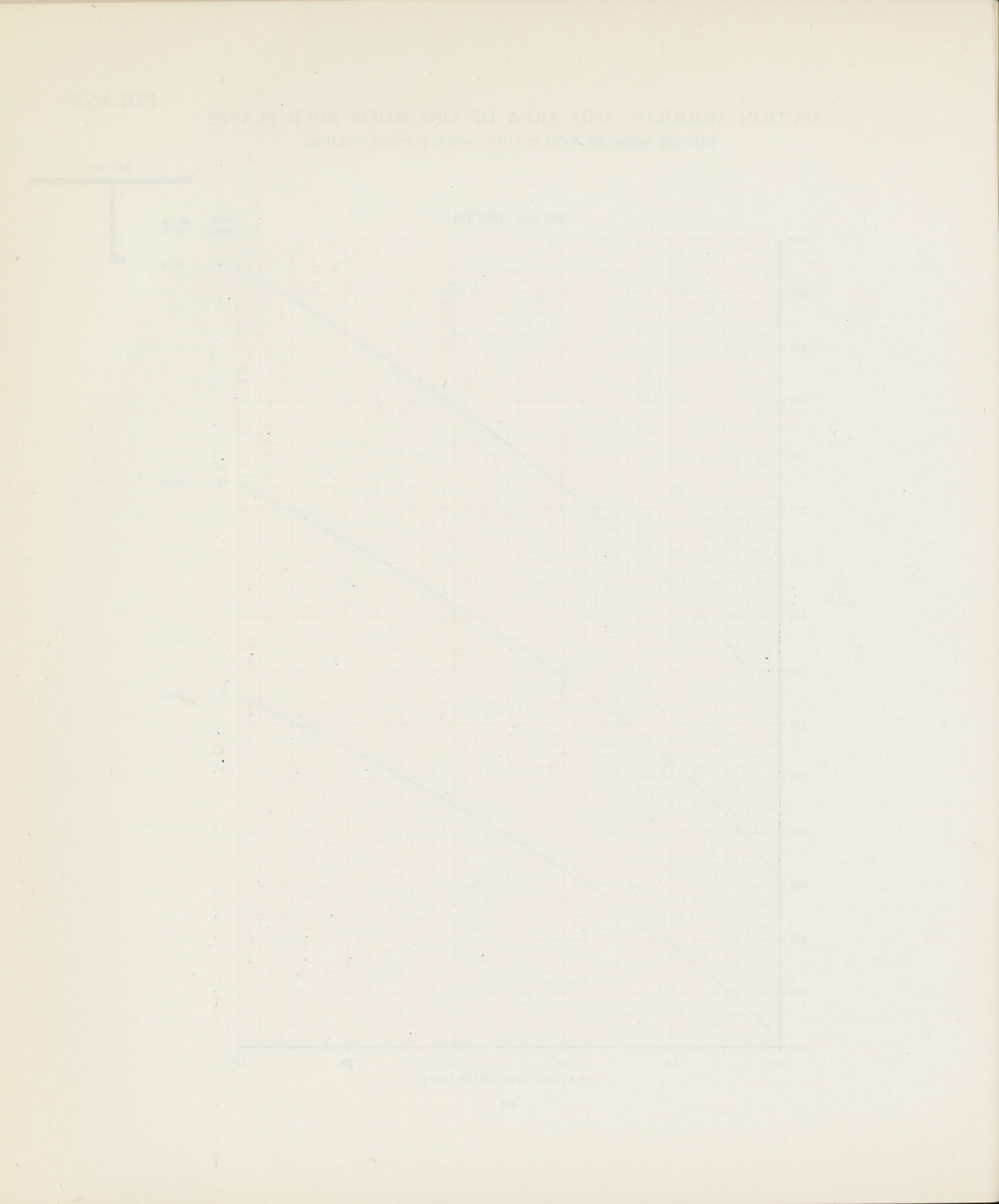
SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



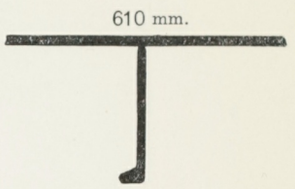
240 mm. DEPTH

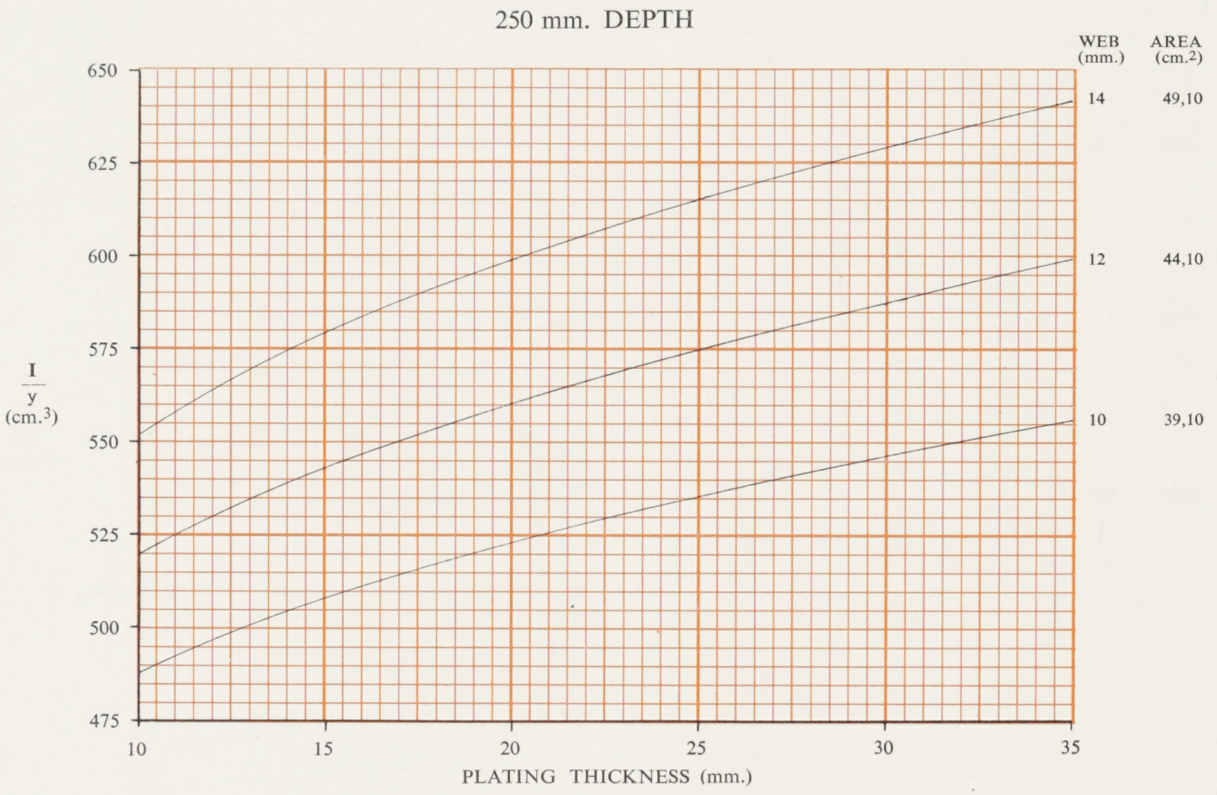




SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

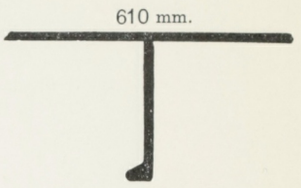
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



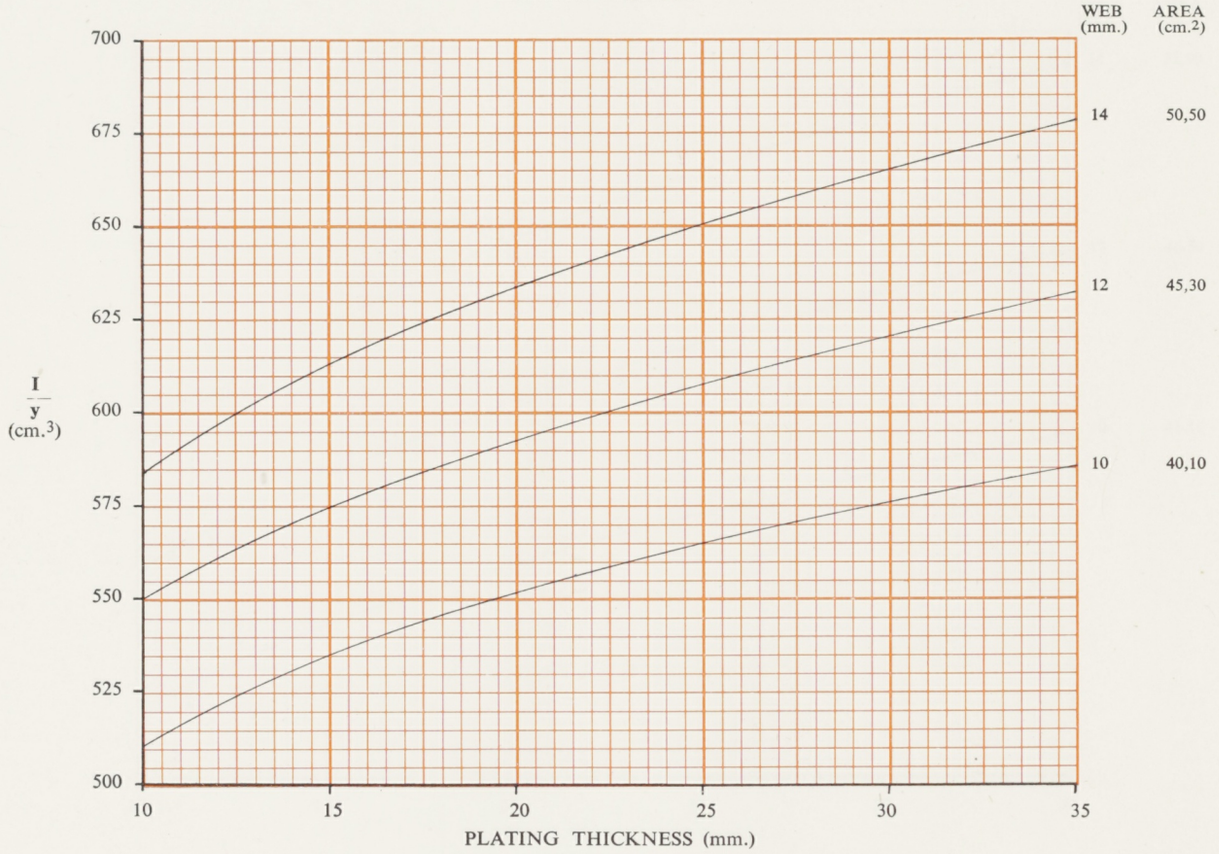


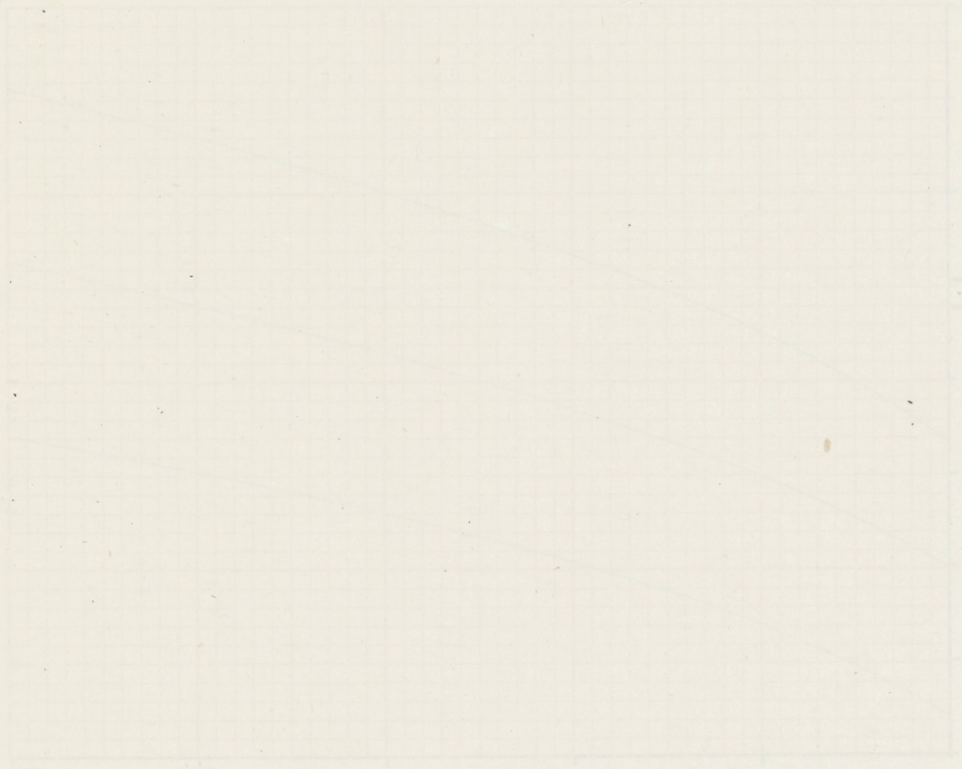
SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



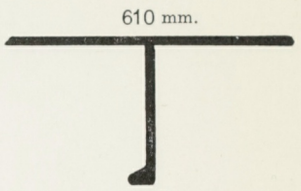
260 mm. DEPTH

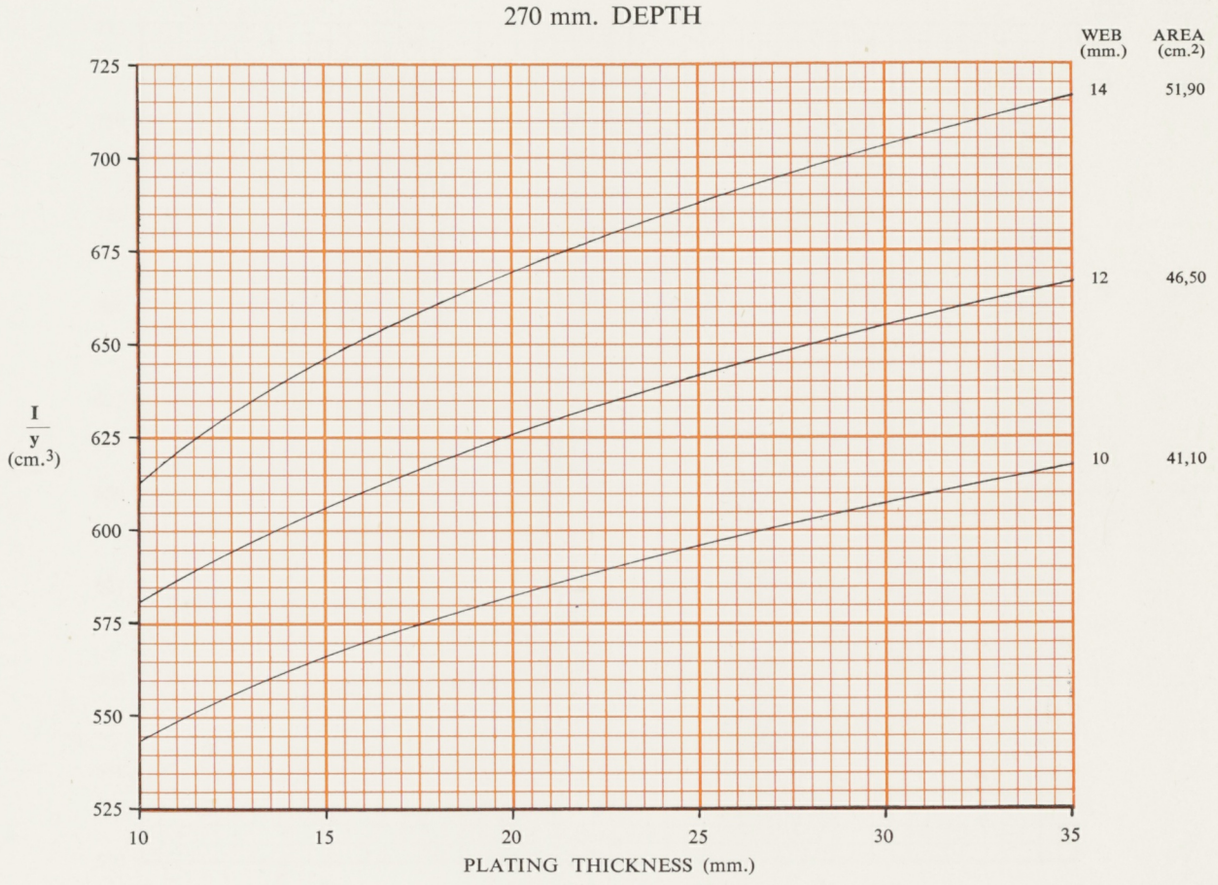




SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

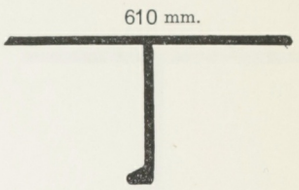
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



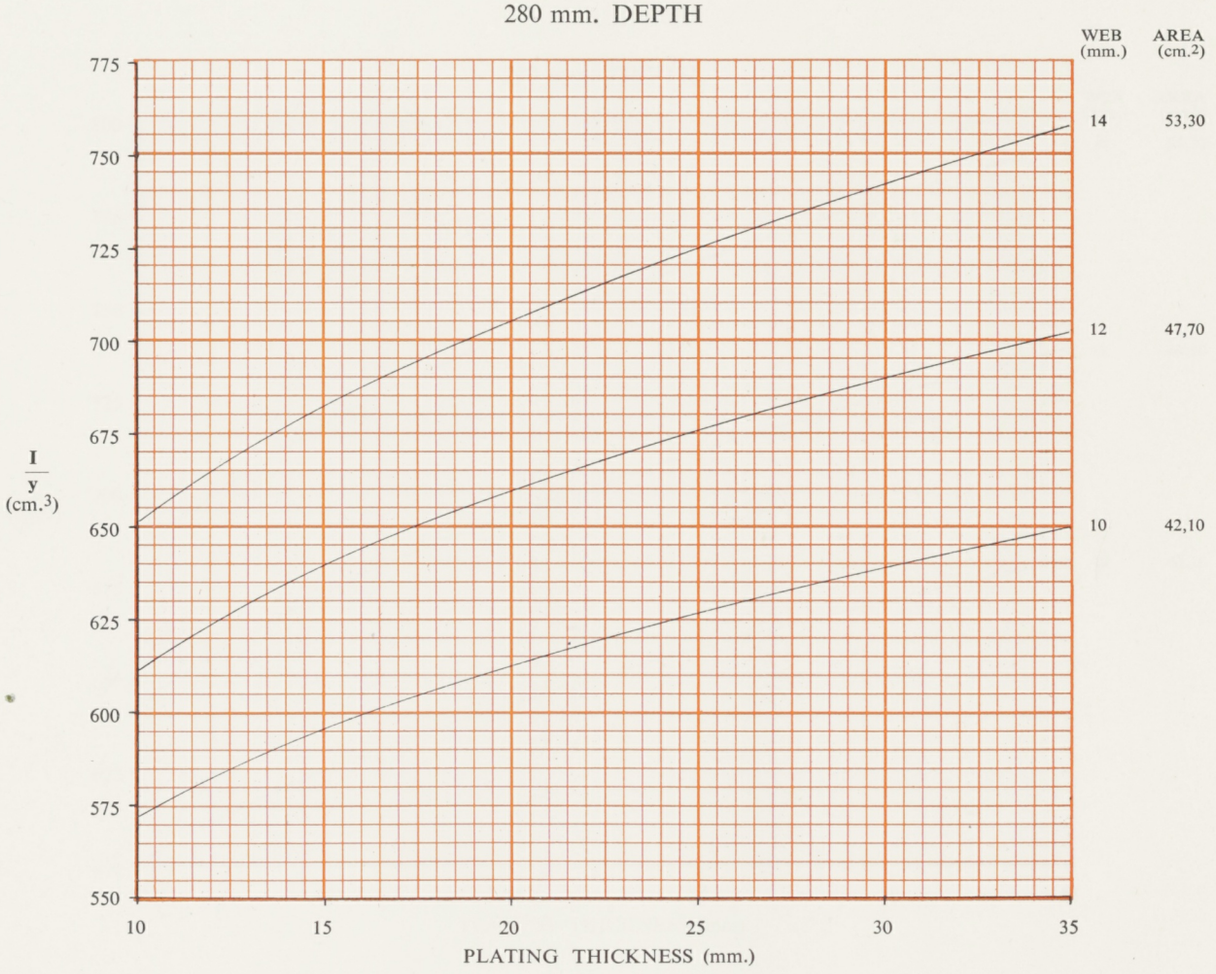


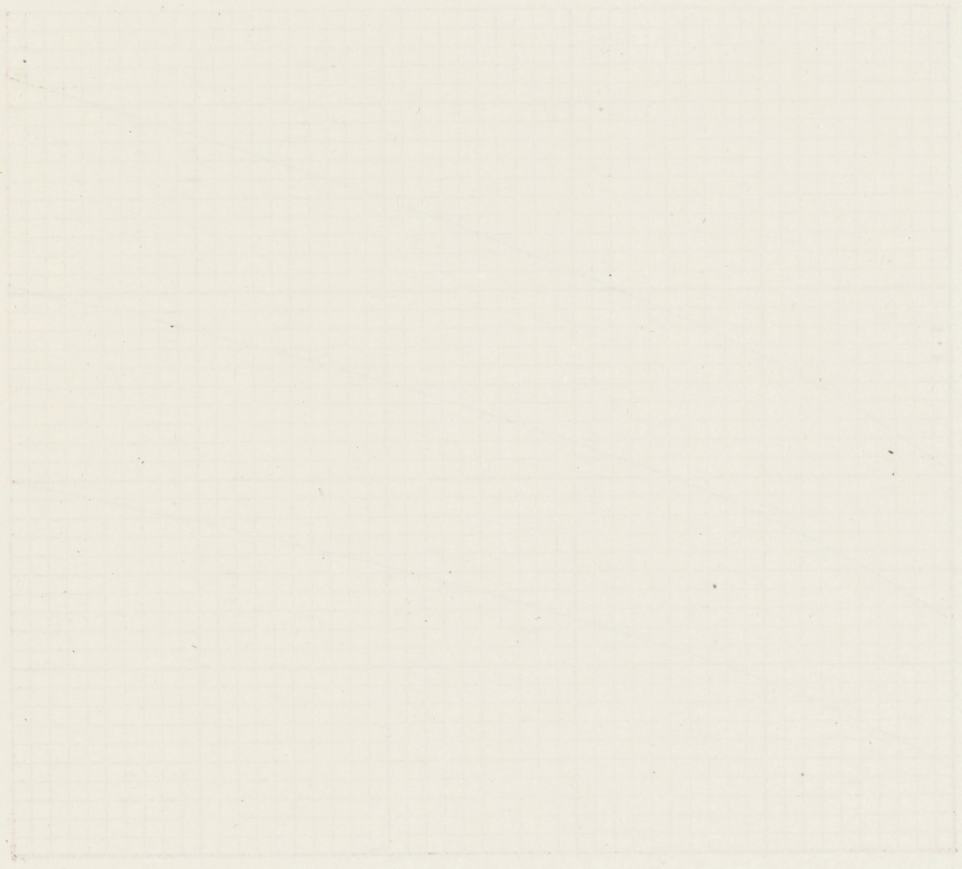
SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



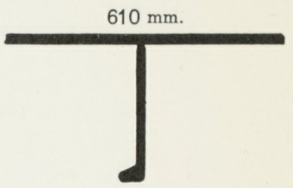
280 mm. DEPTH



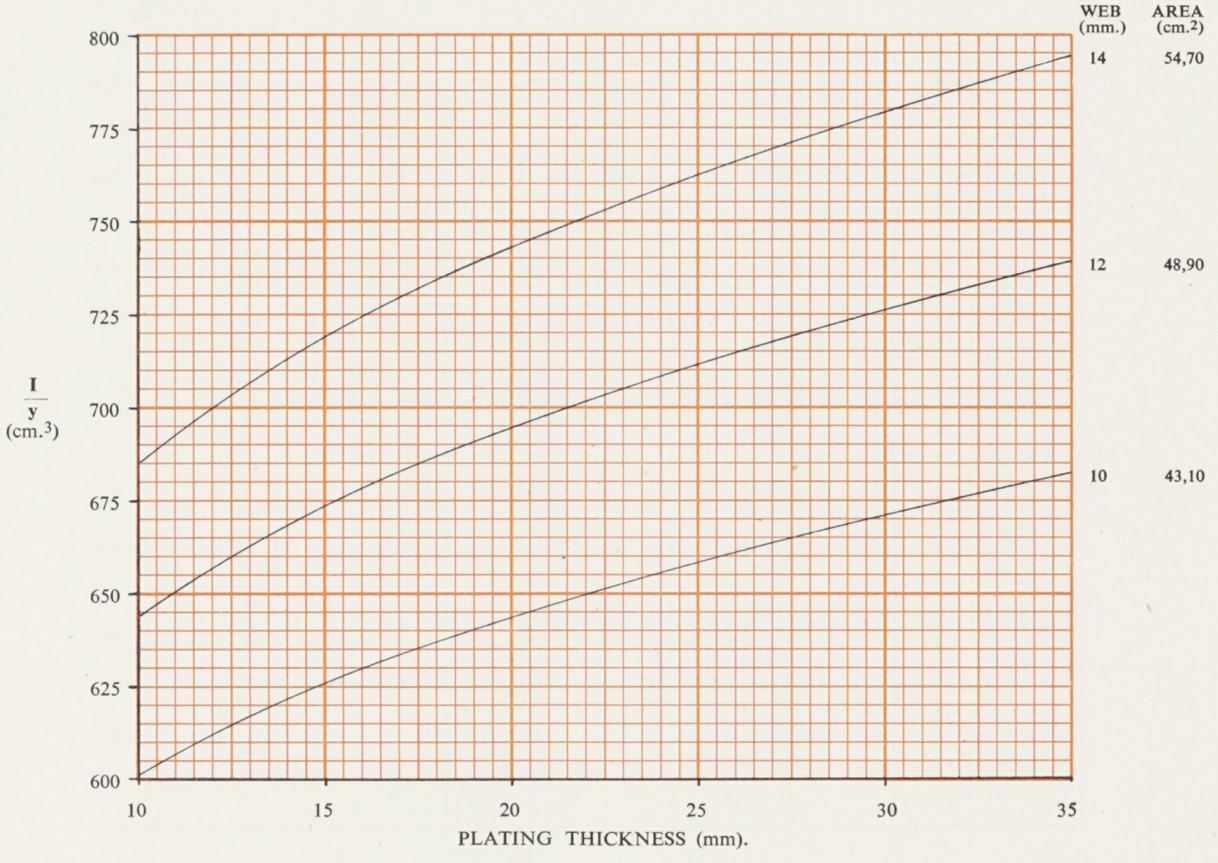


SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

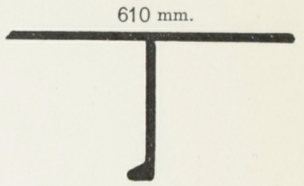


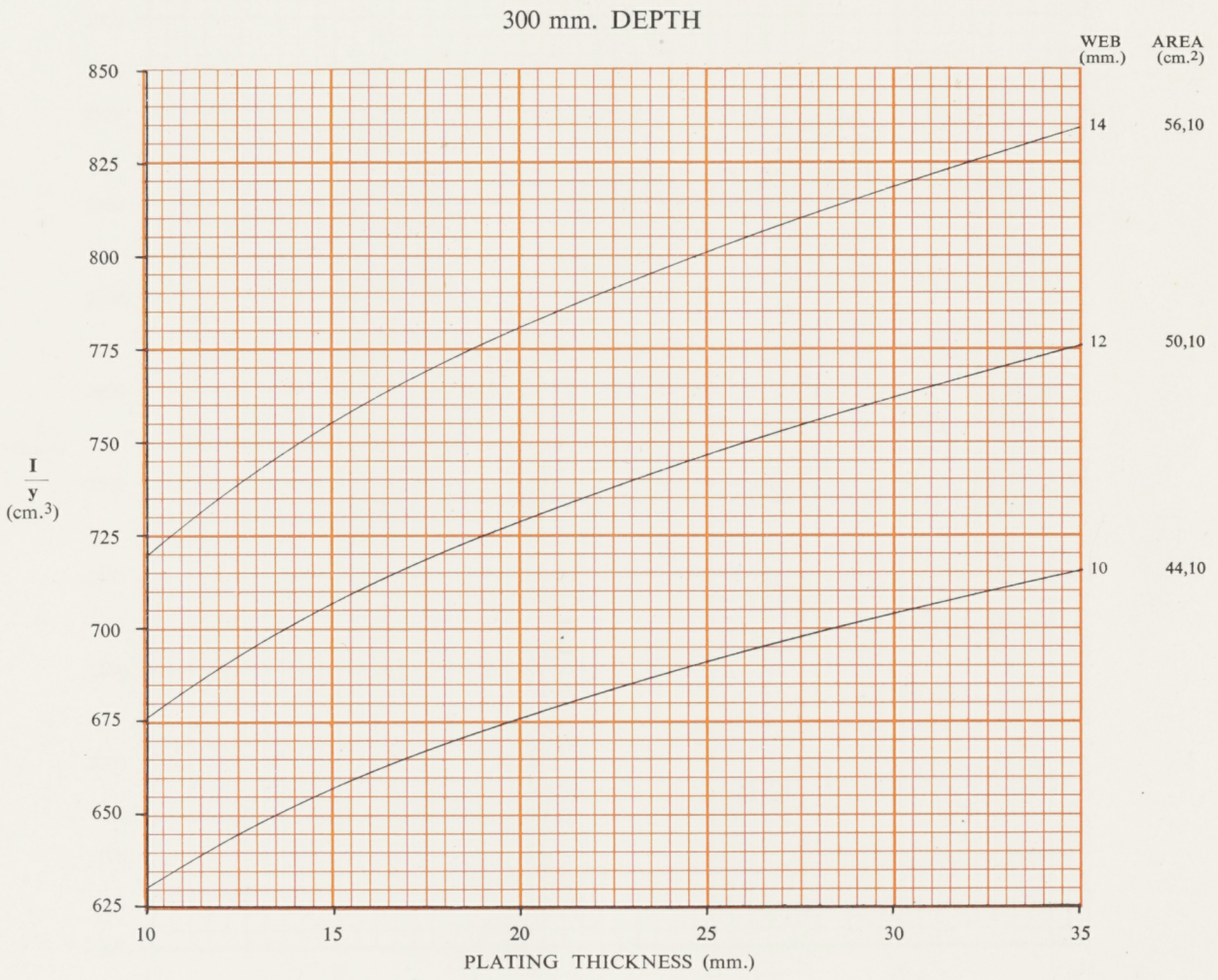
290 mm. DEPTH



SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

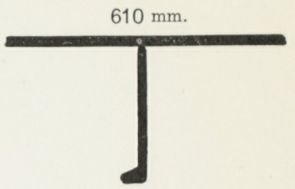
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



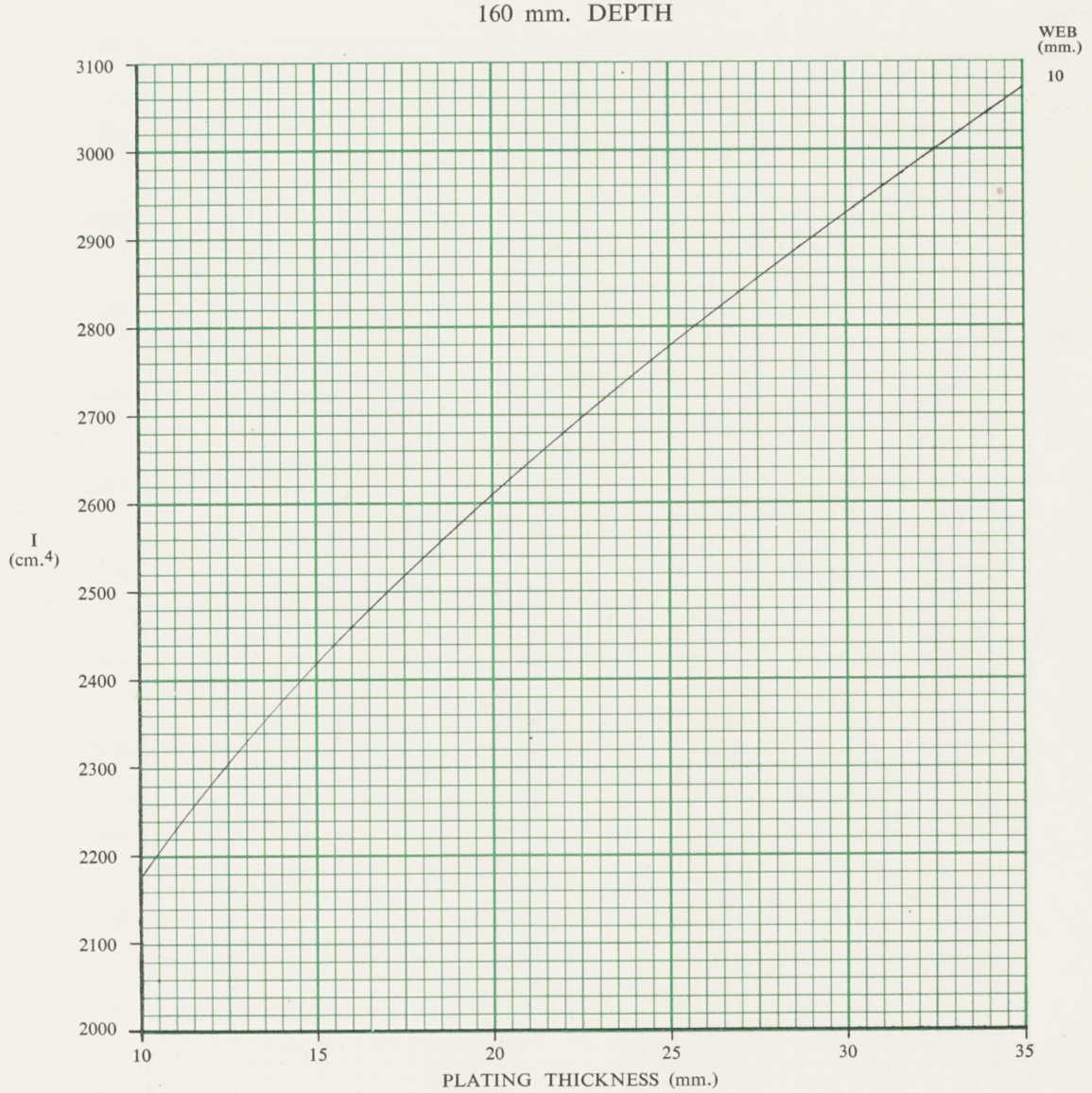


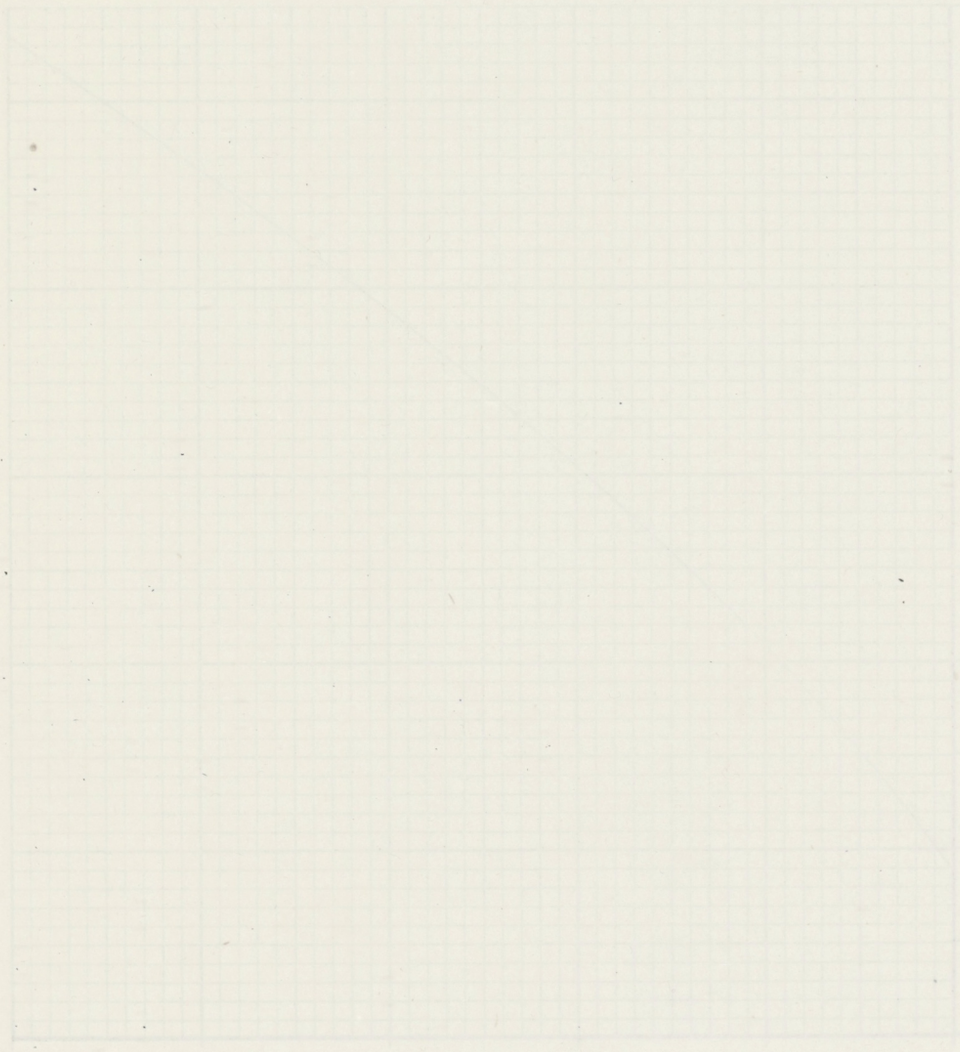
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)



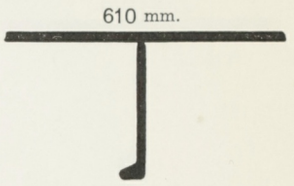
160 mm. DEPTH



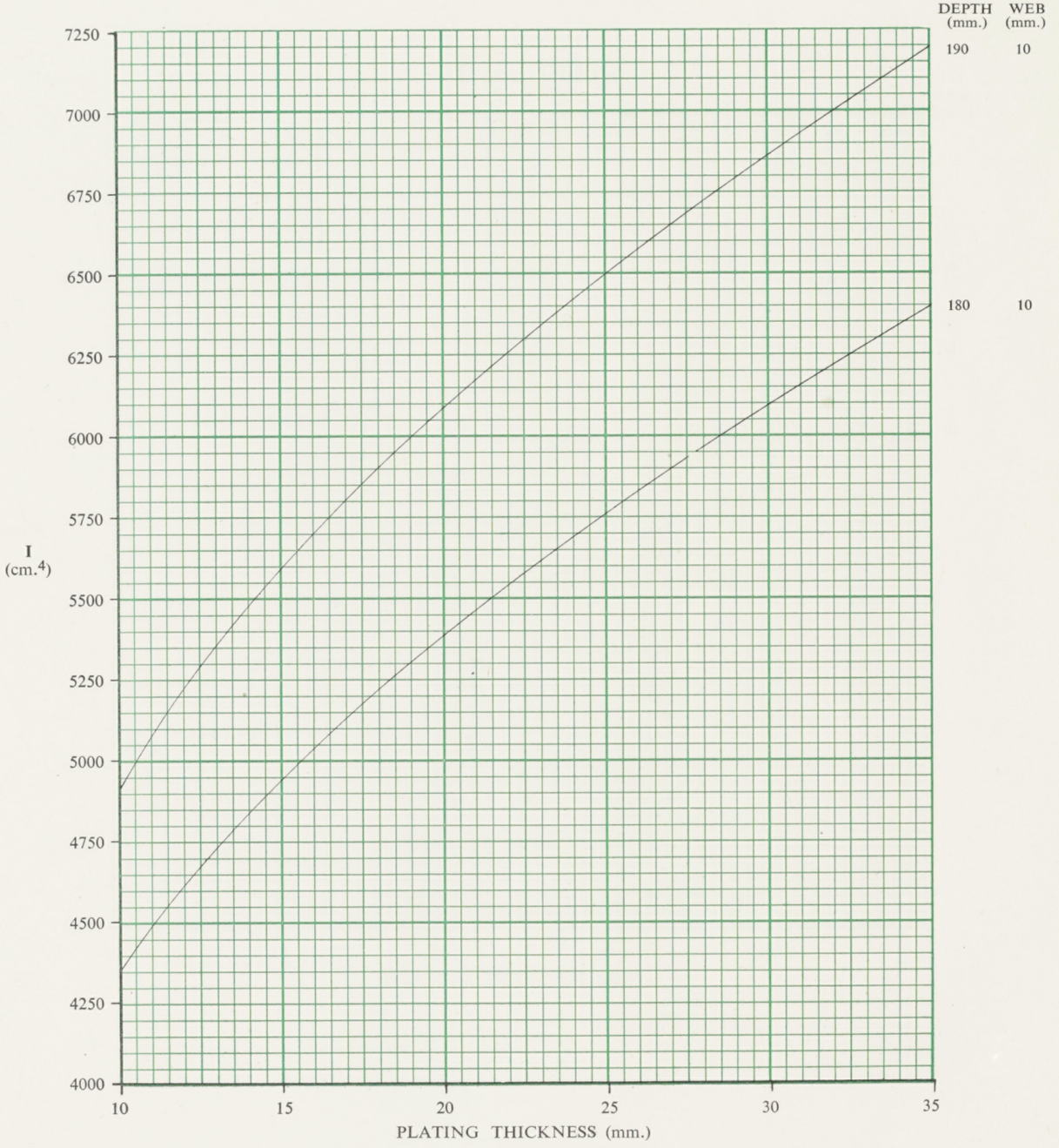


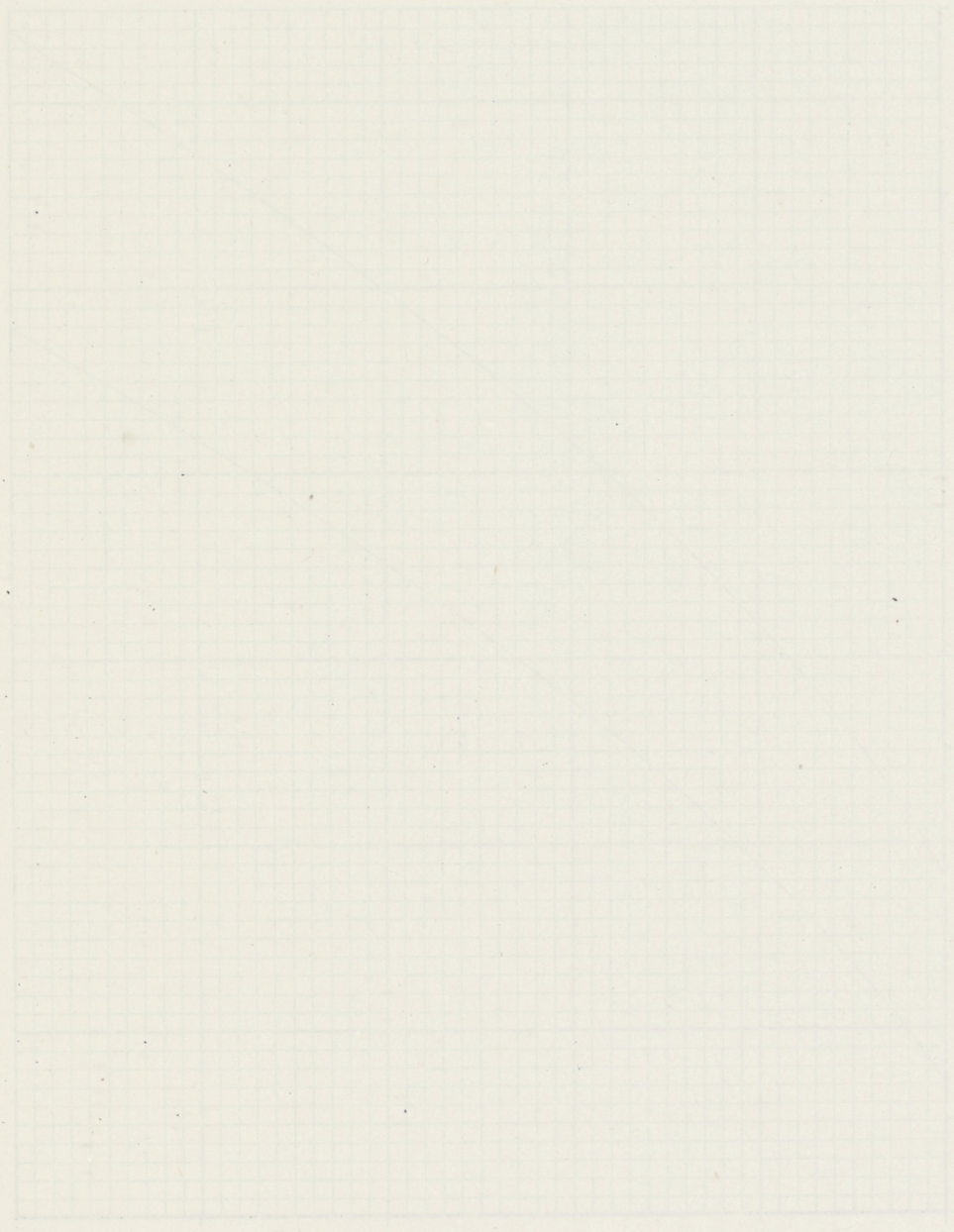
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)



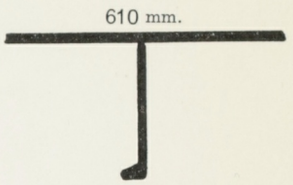
180 & 190 mm. DEPTH



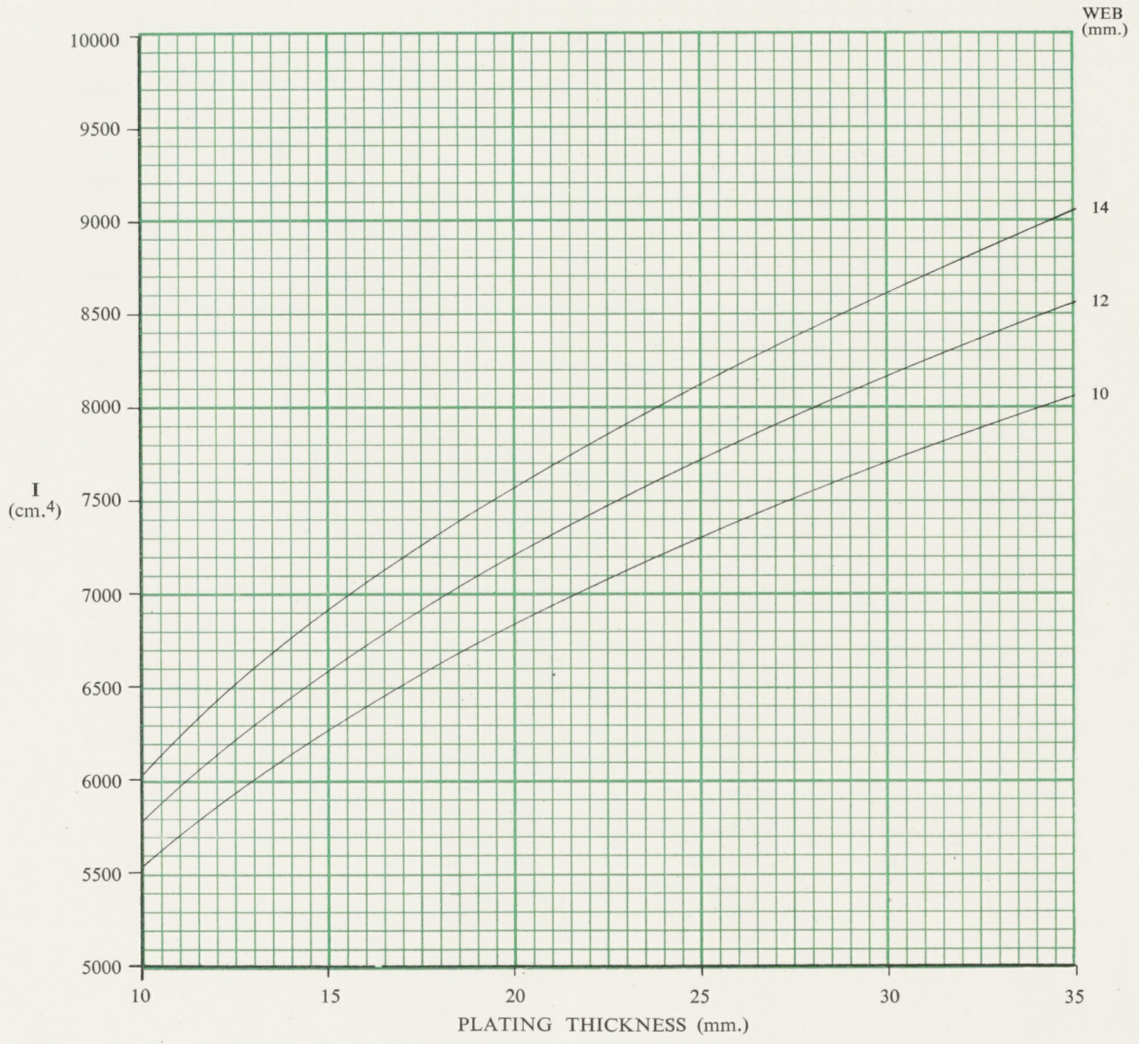


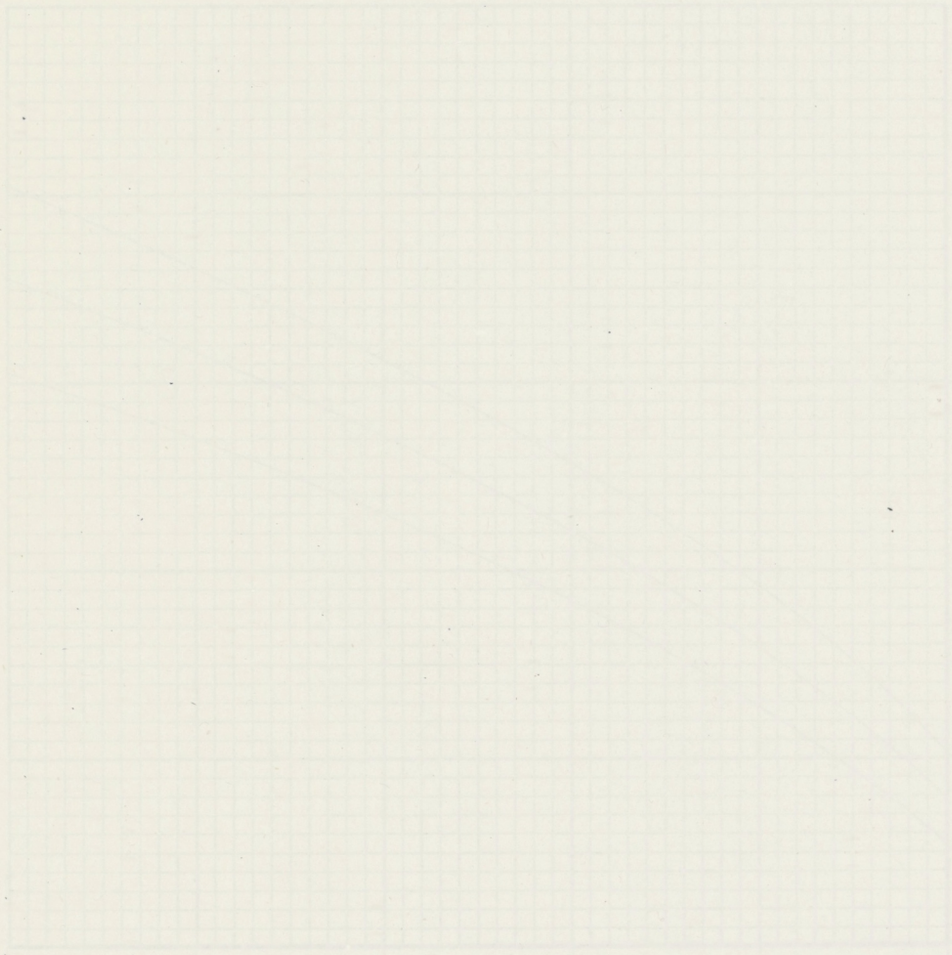
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)



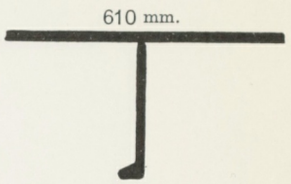
200 mm. DEPTH



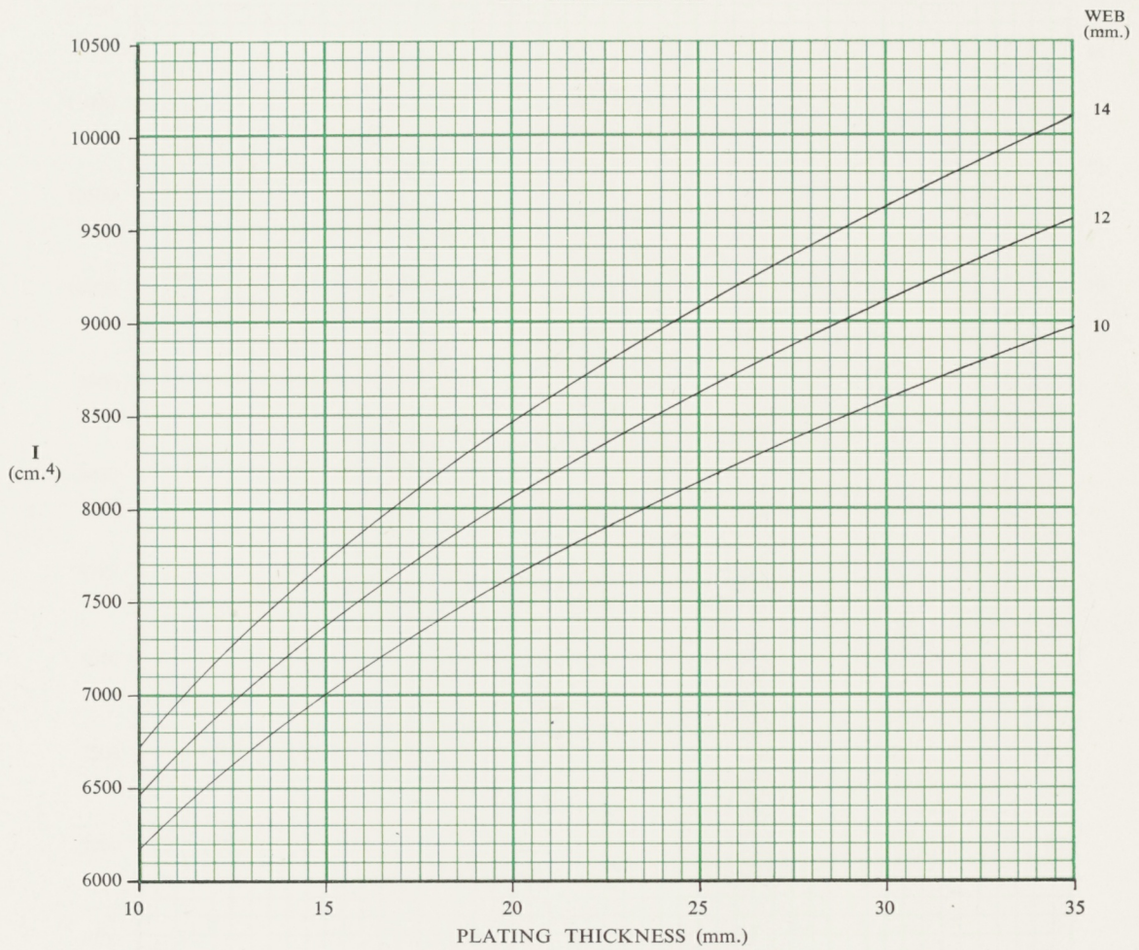


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)

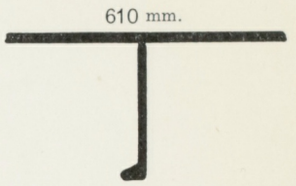


210 mm. DEPTH

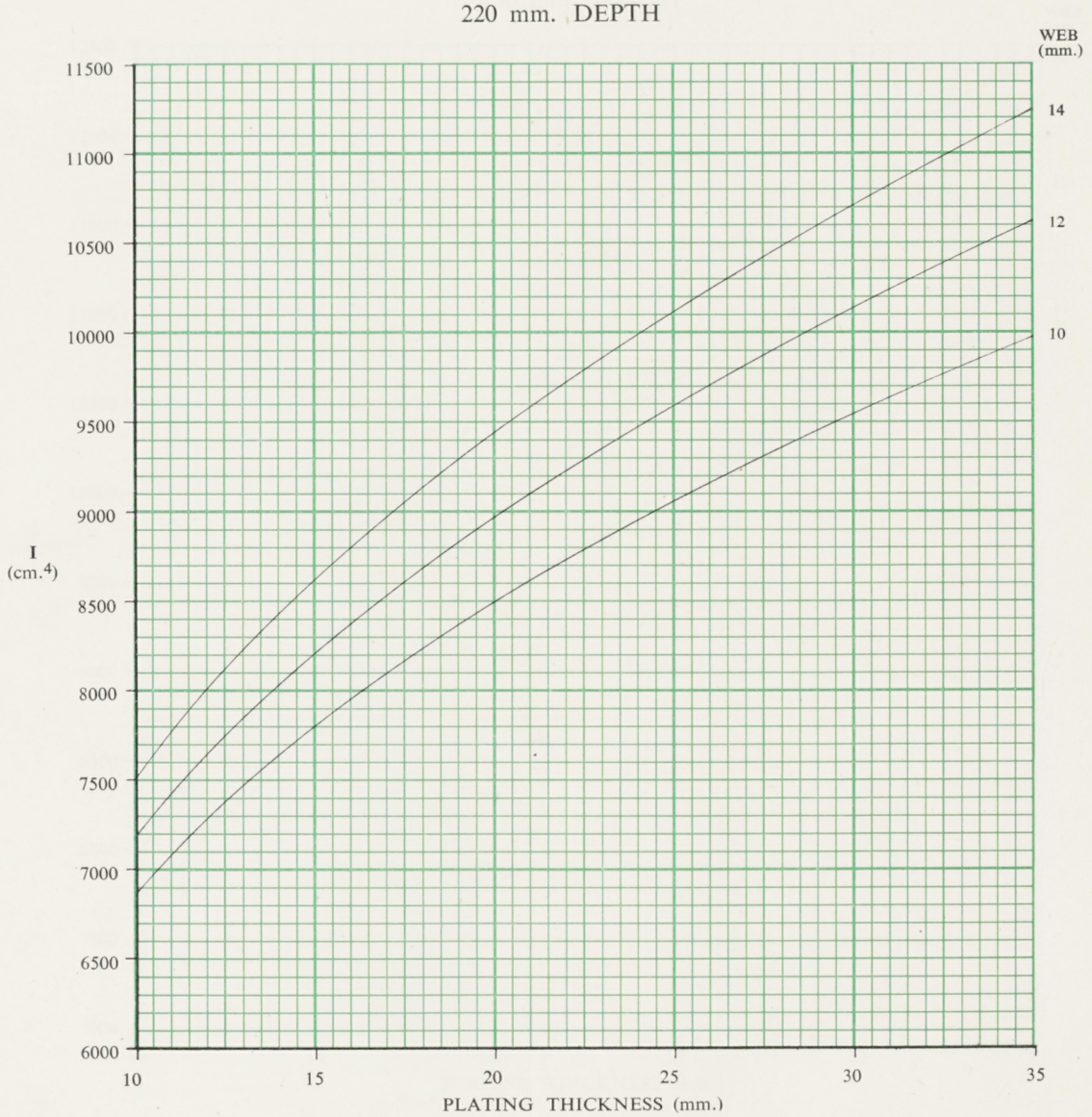


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)



220 mm. DEPTH



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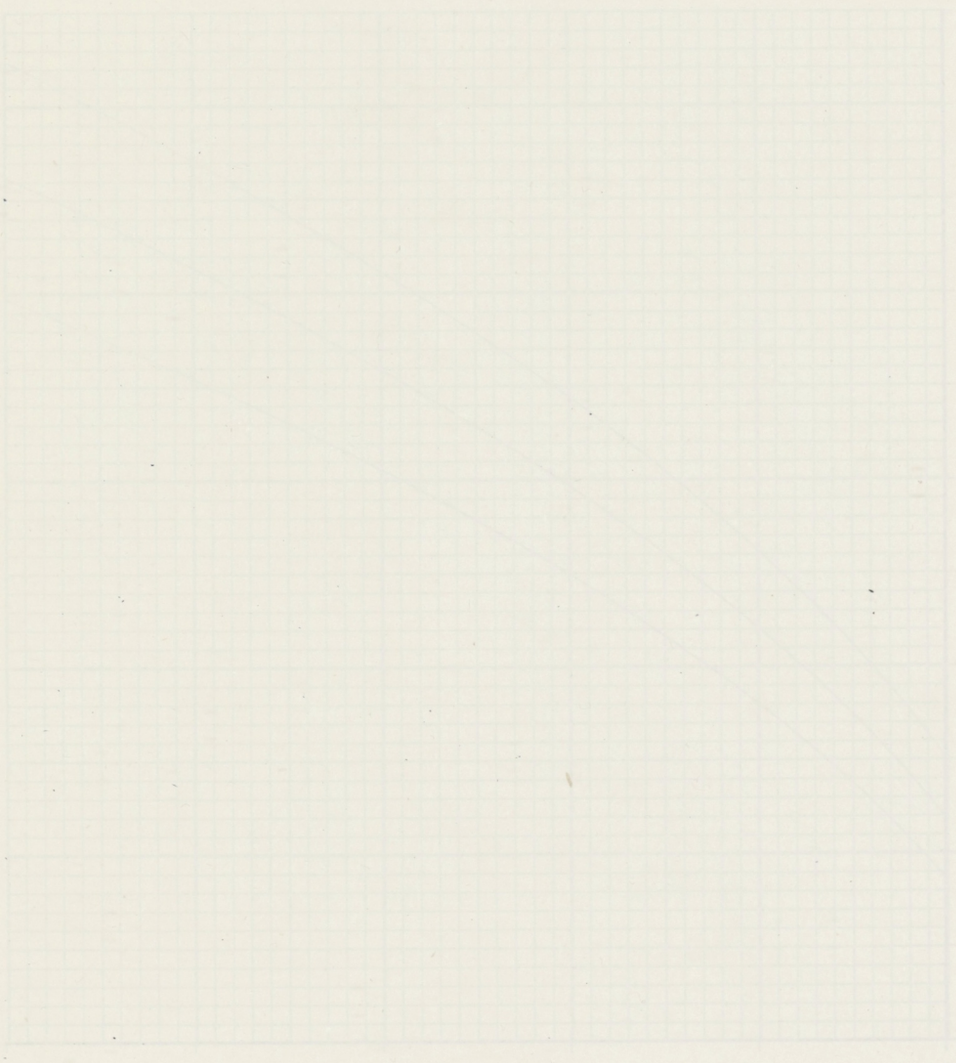
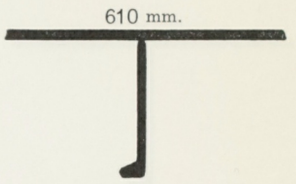
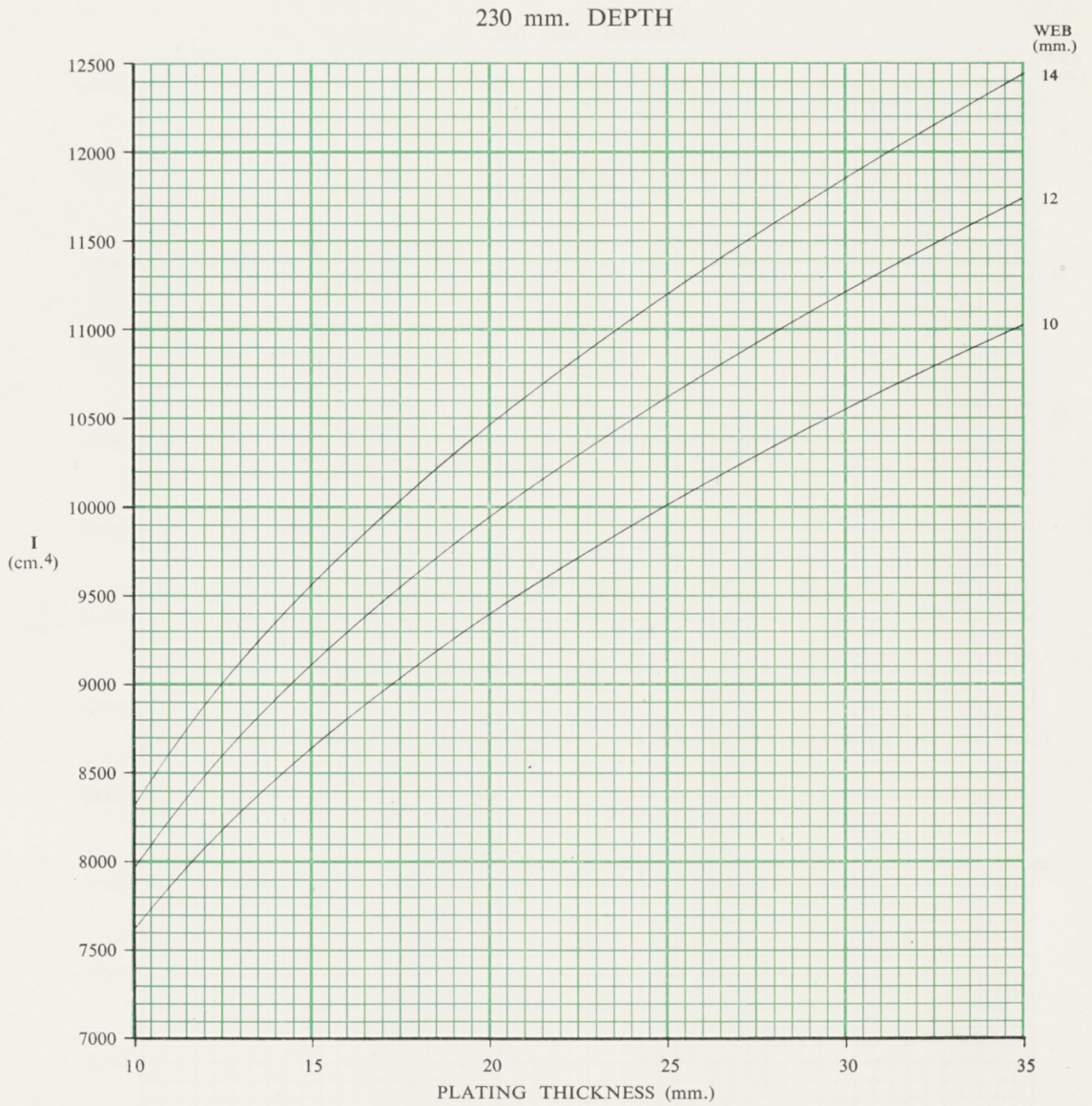
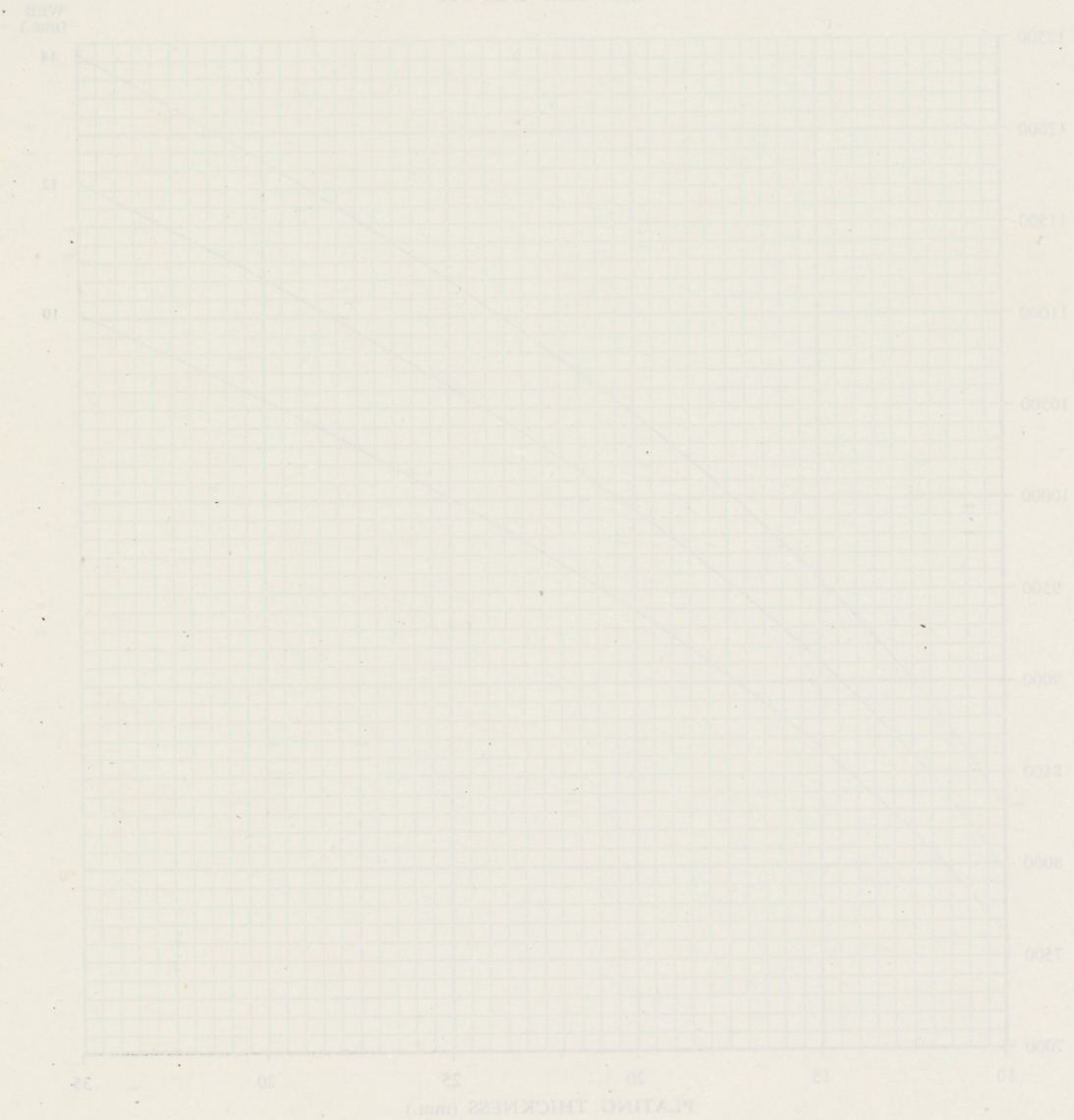


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)

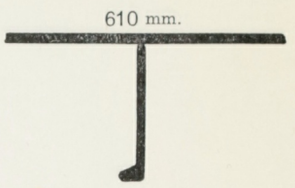




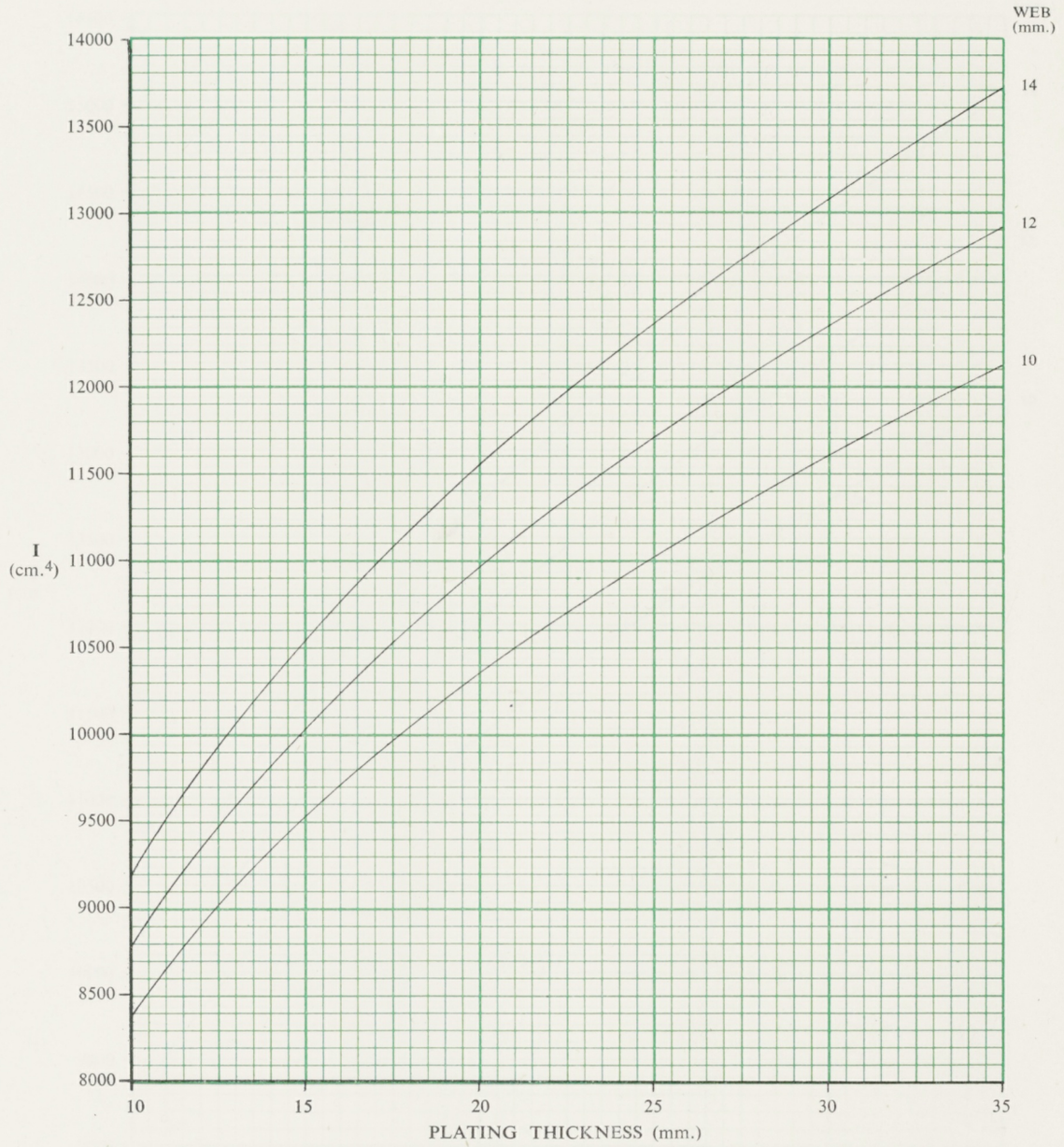


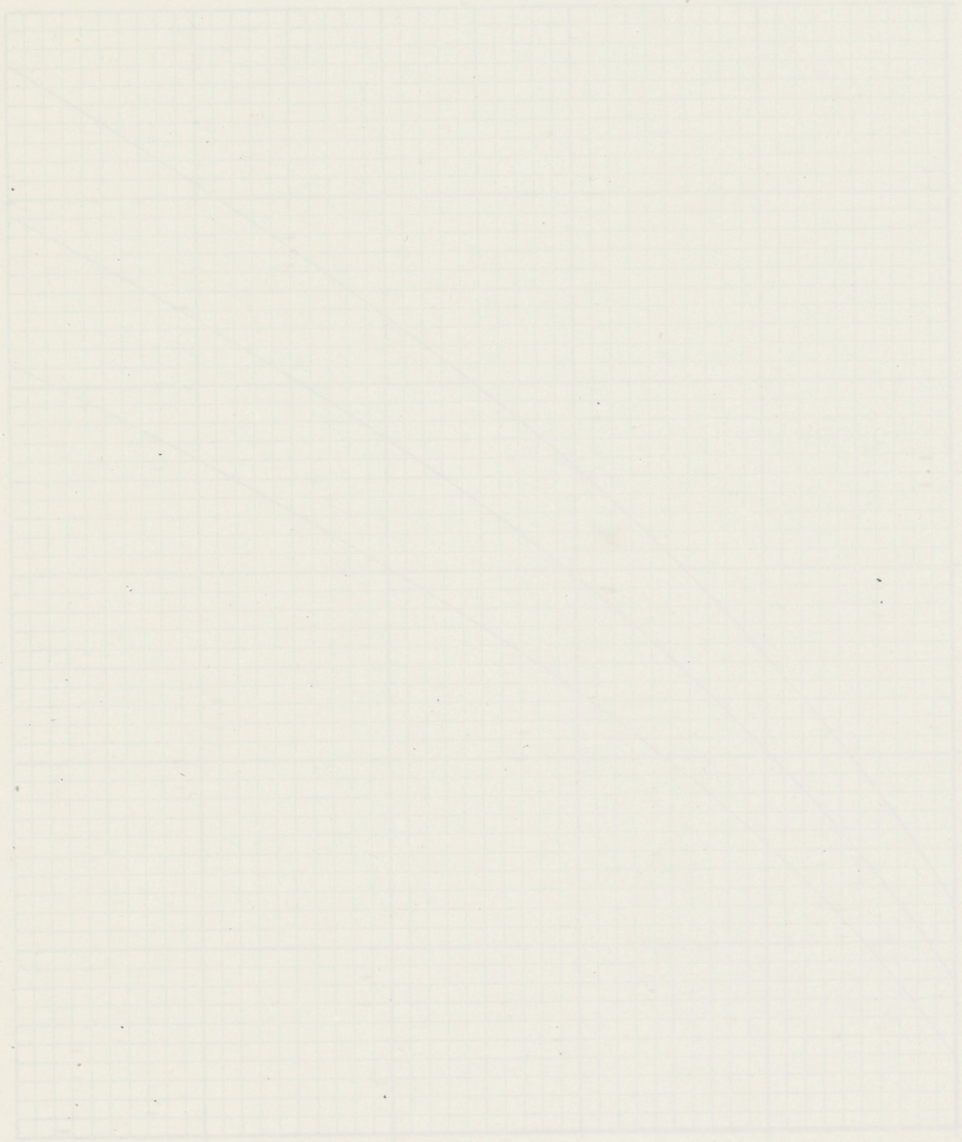
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)



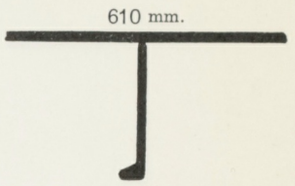
240 mm. DEPTH



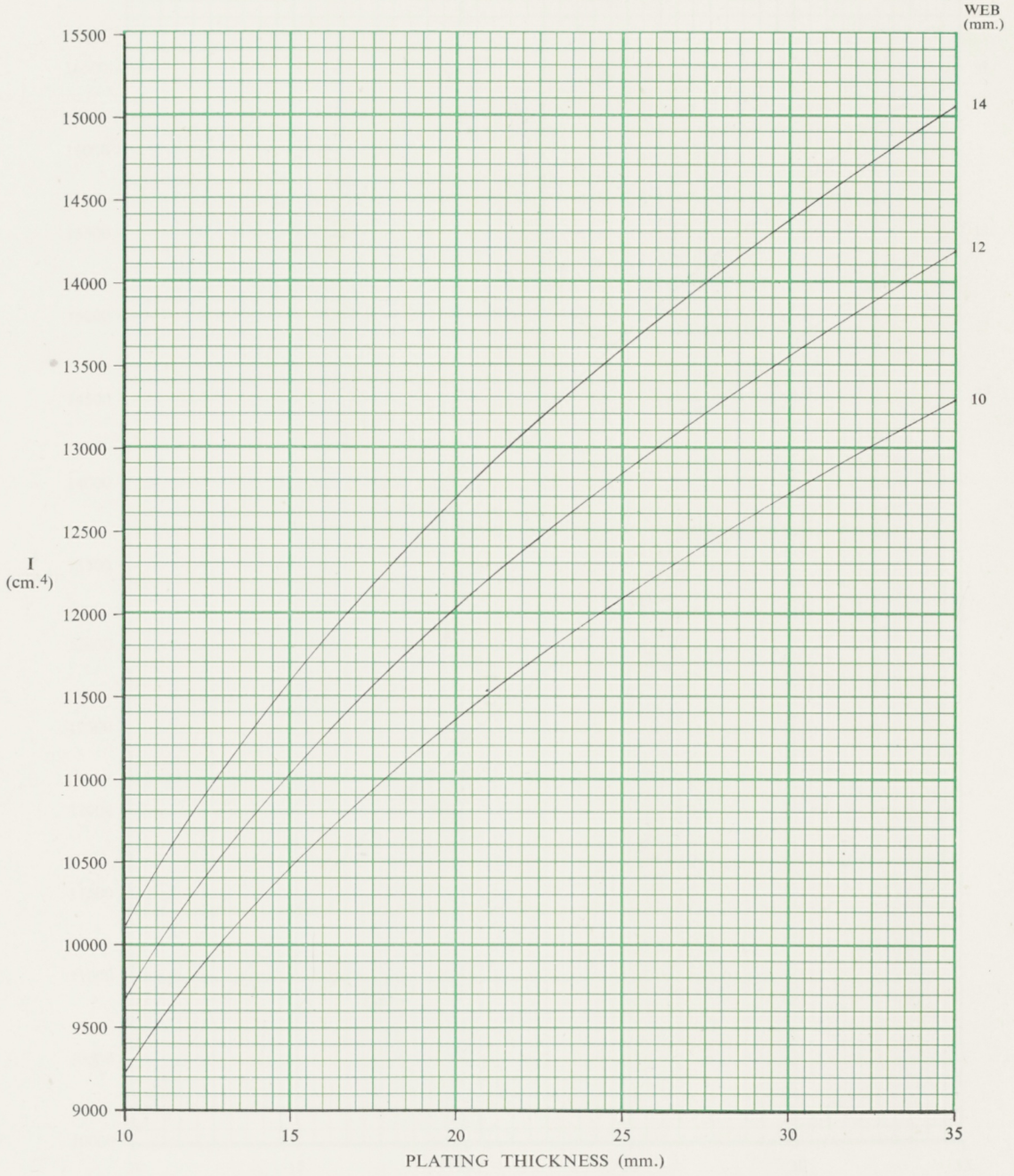


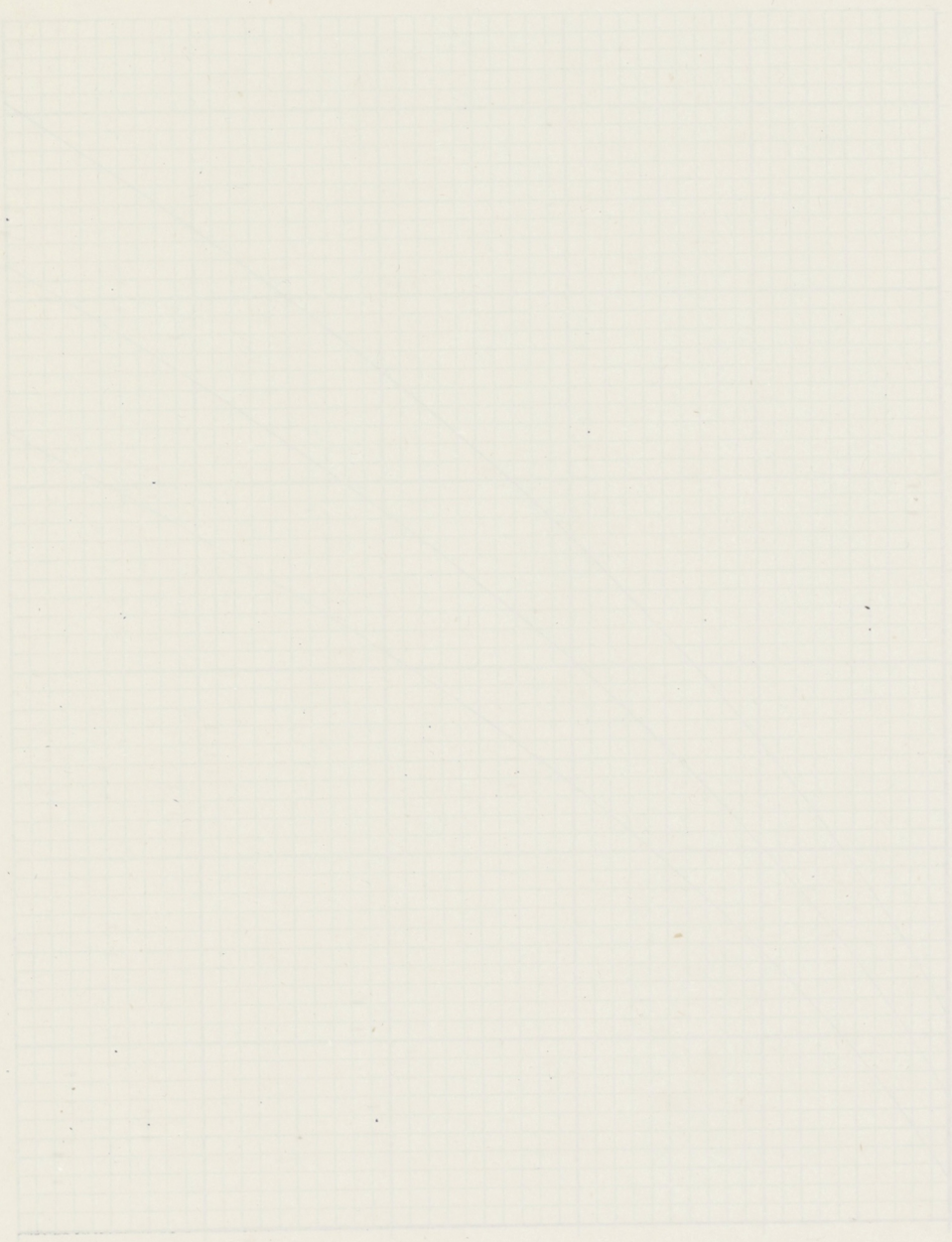
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)



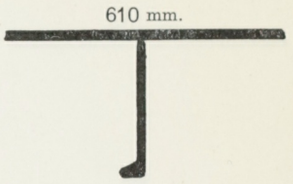
250 mm. DEPTH



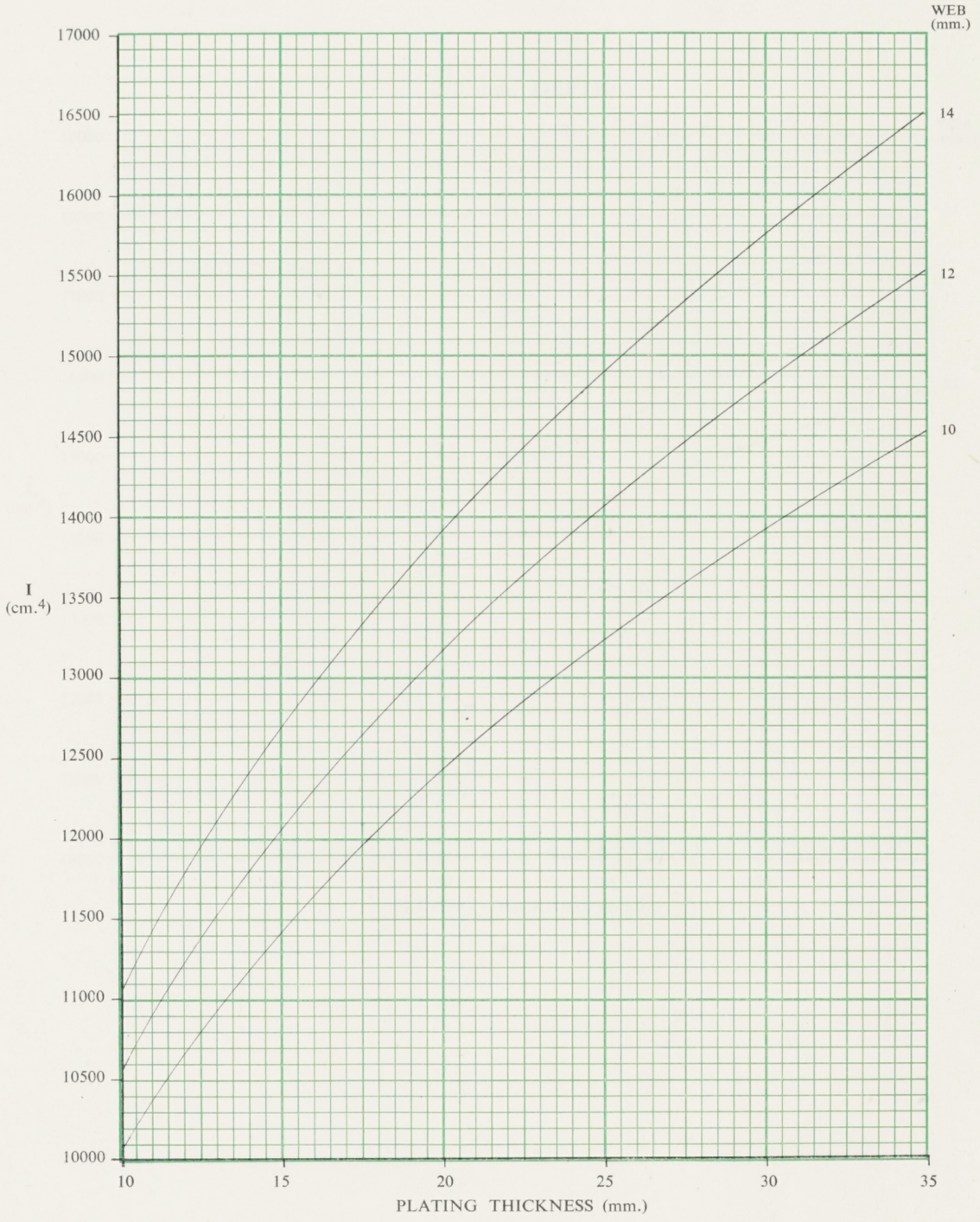


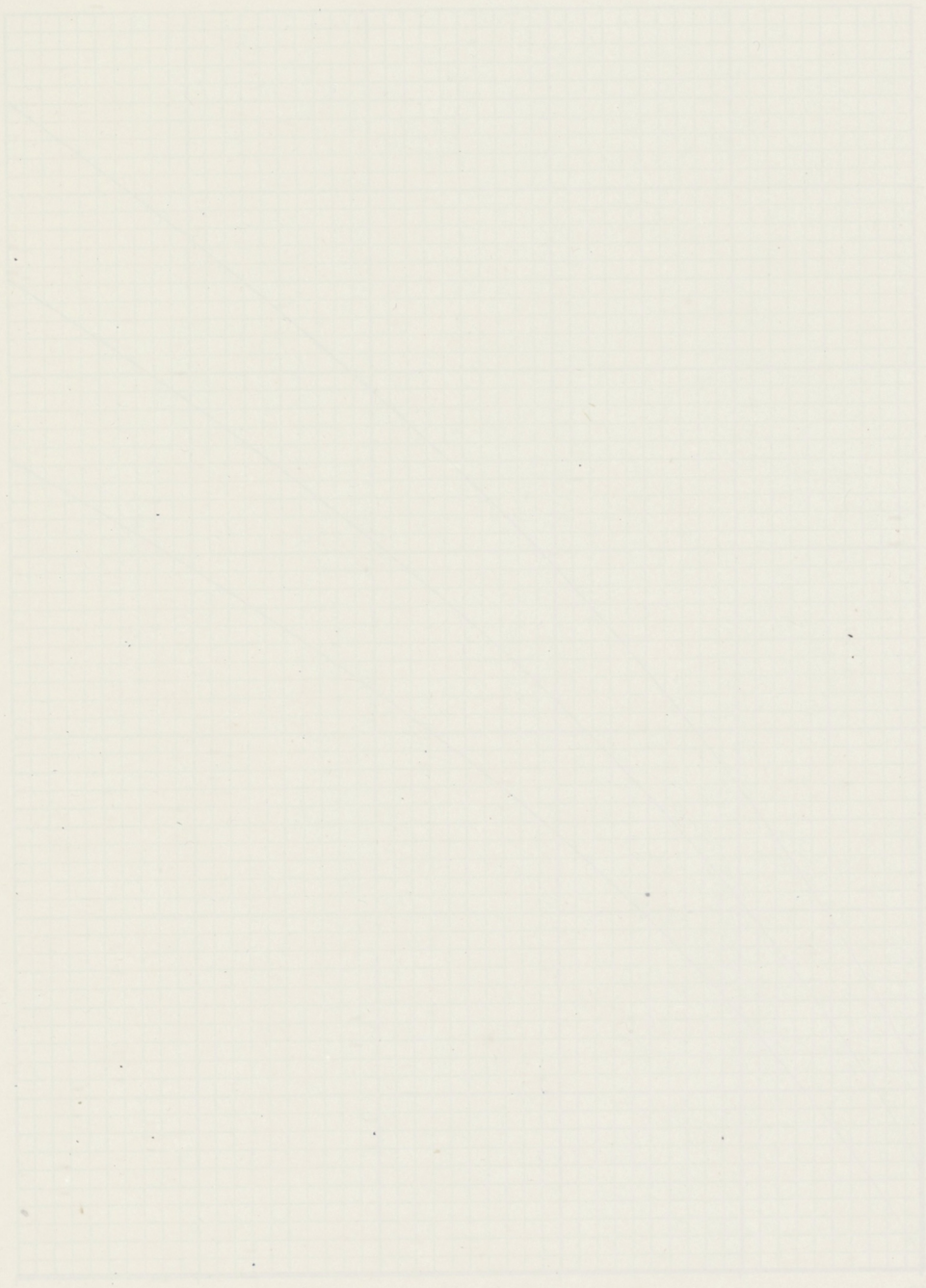
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)



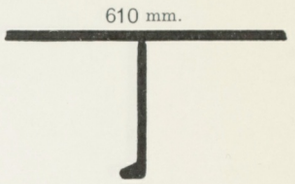
260 mm. DEPTH



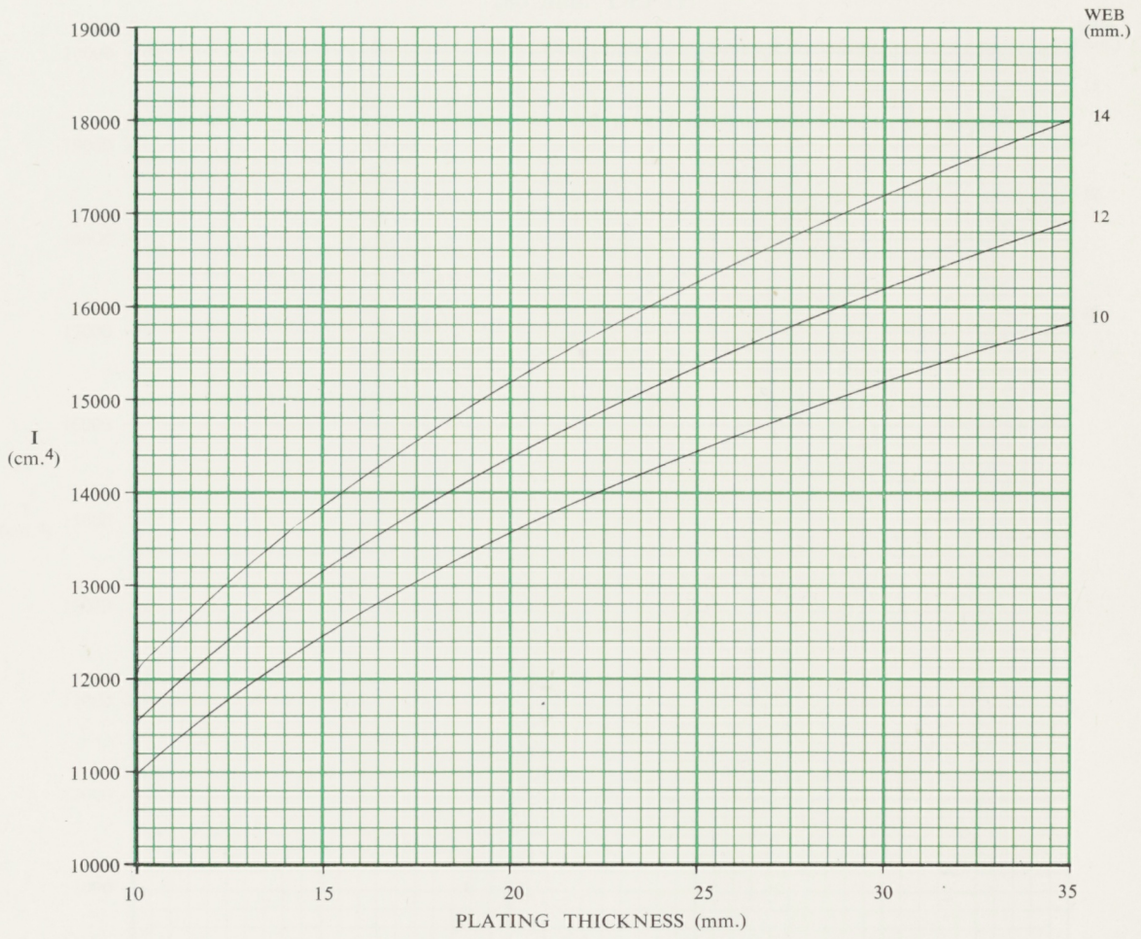


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)

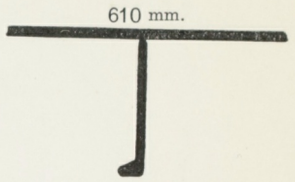


270 mm. DEPTH

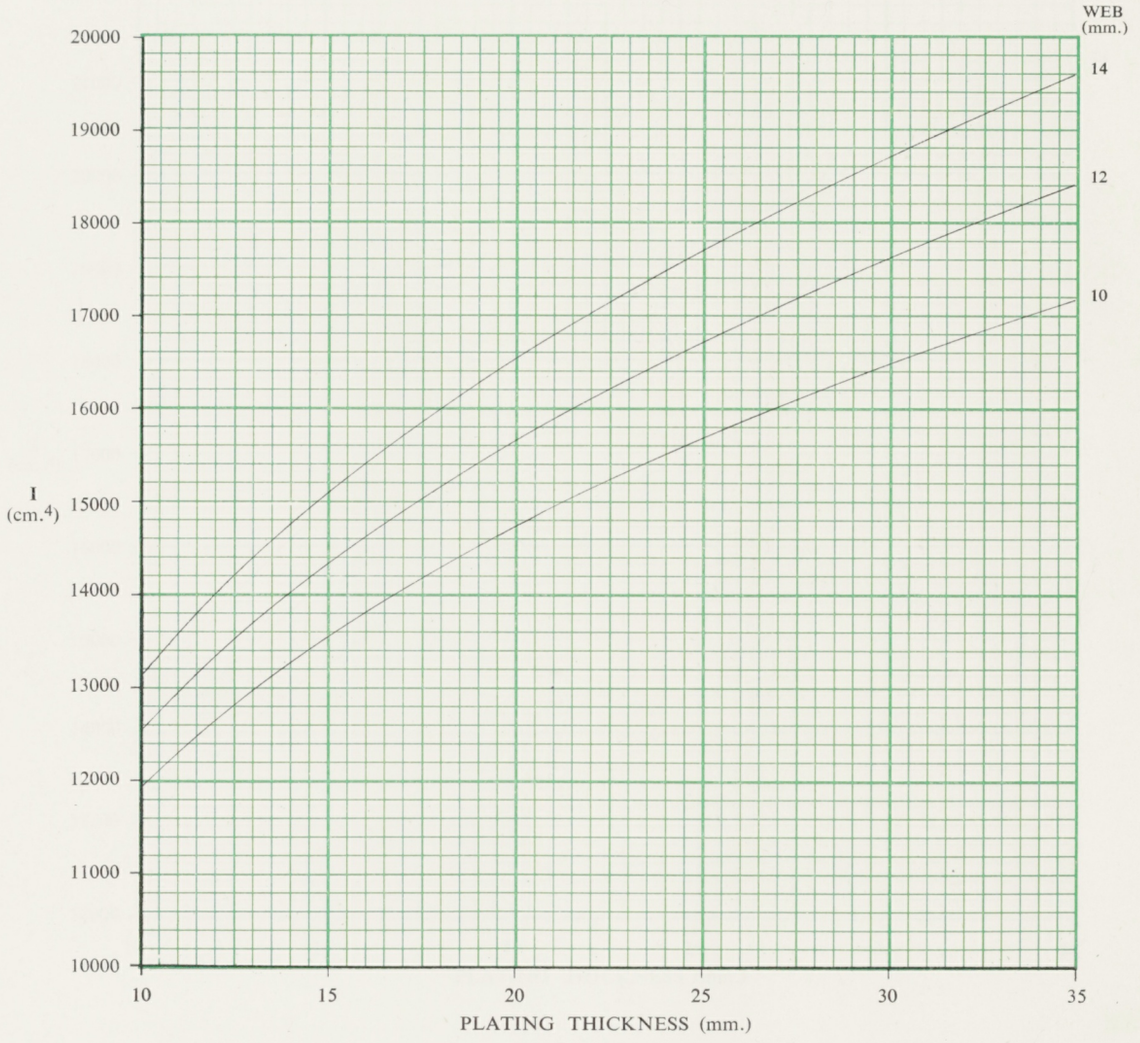


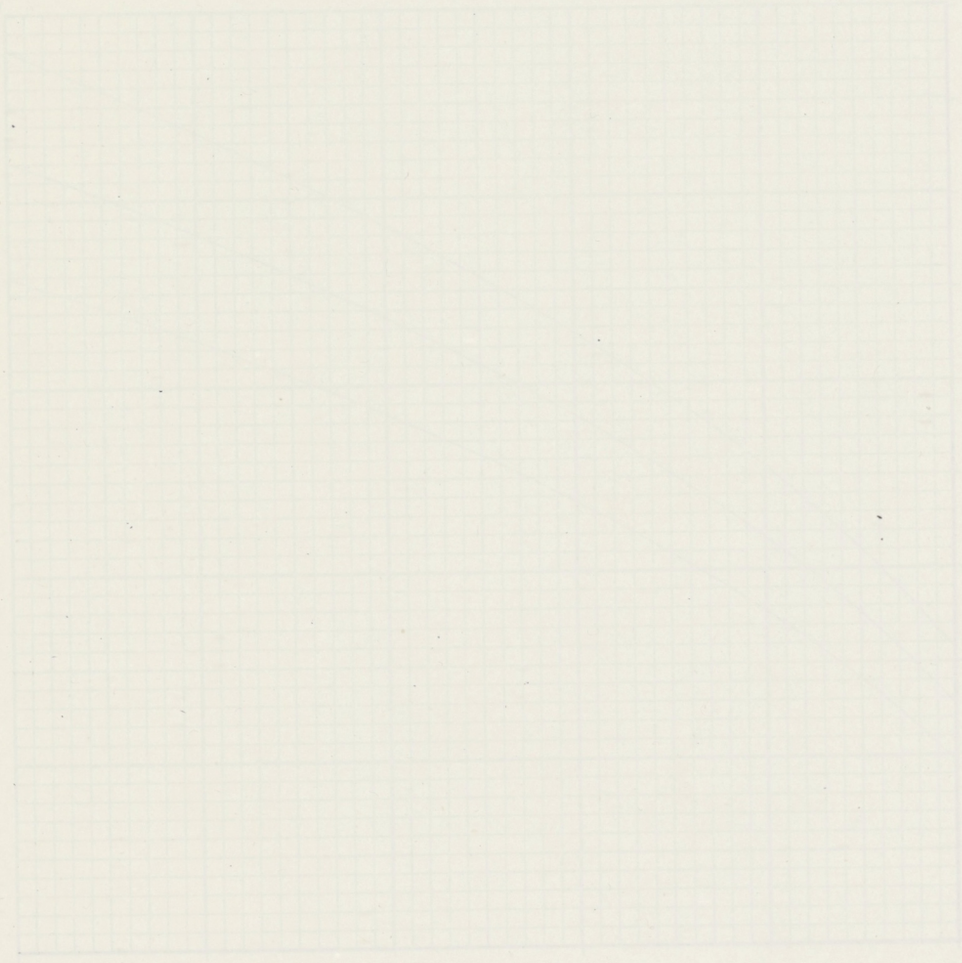
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)



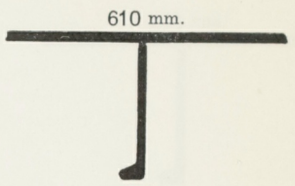
280 mm. DEPTH



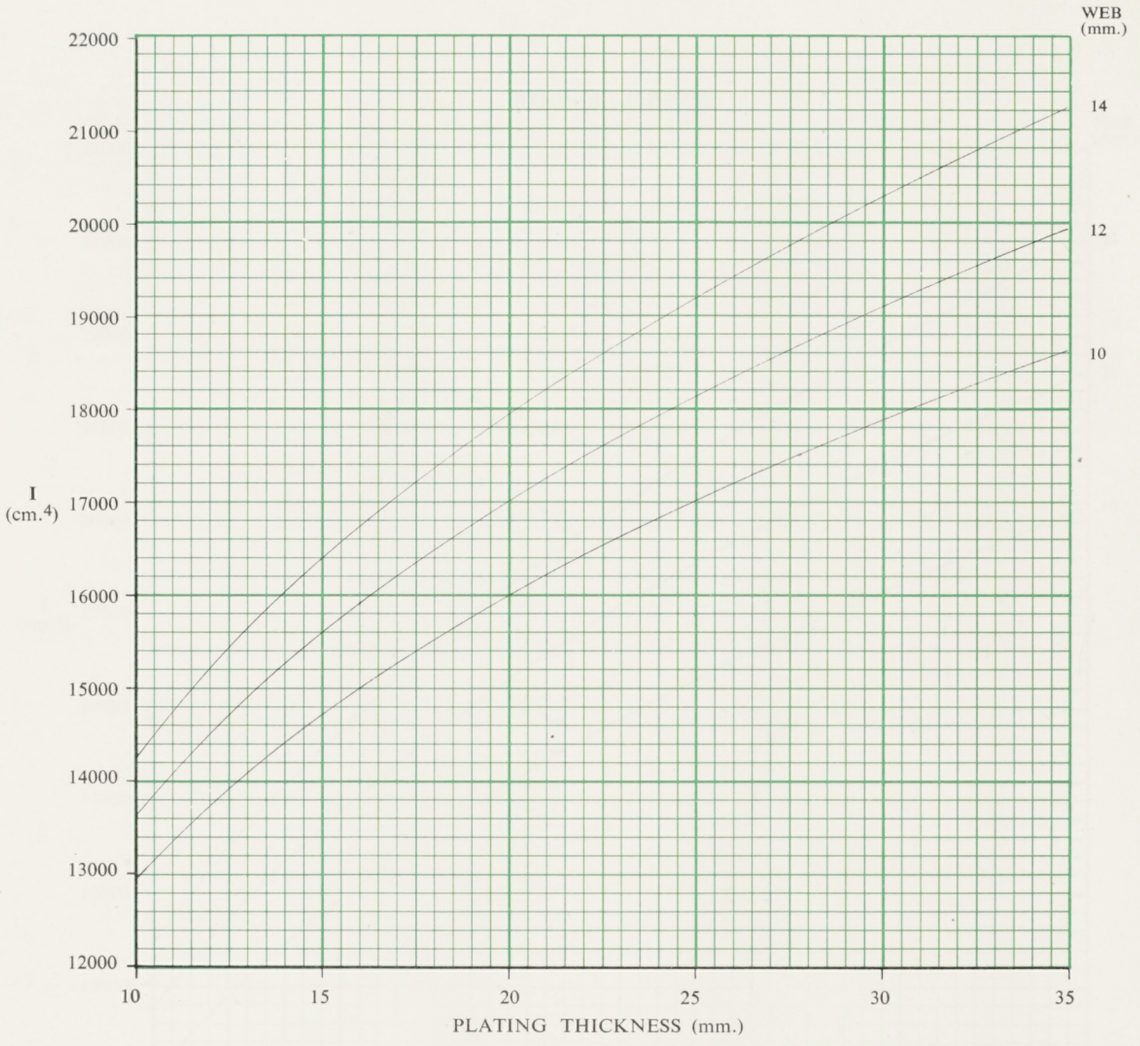


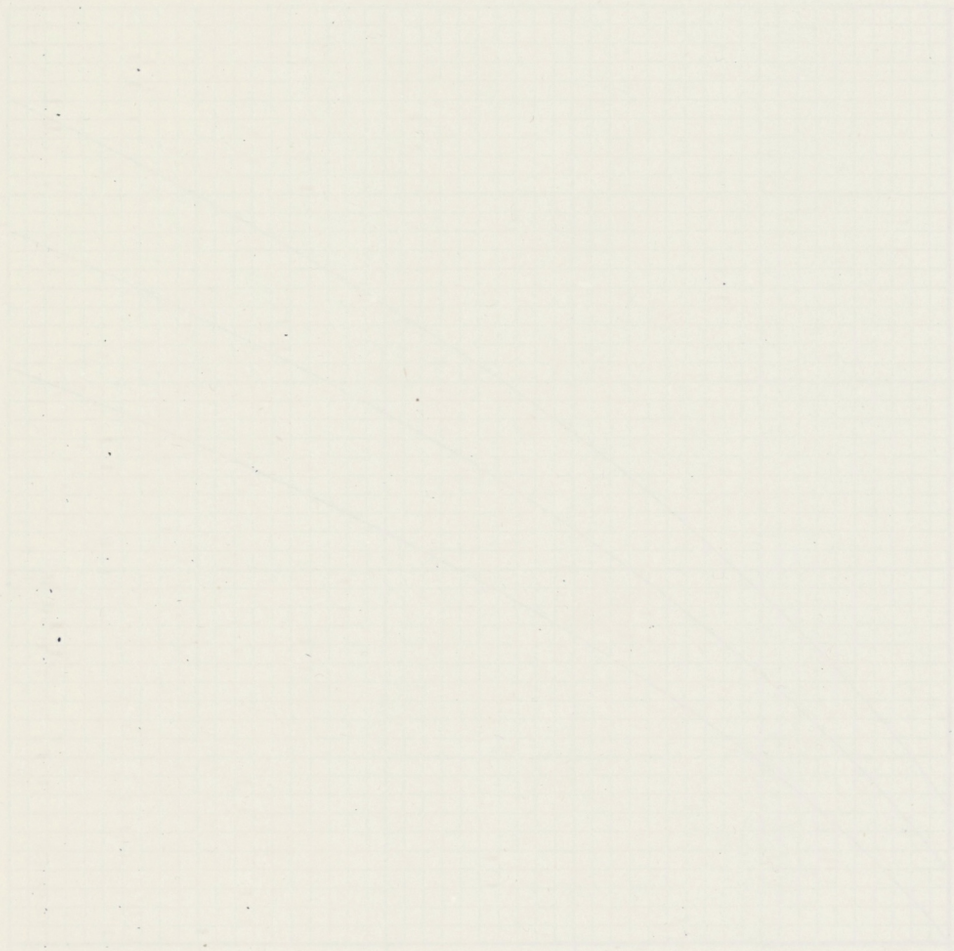
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)



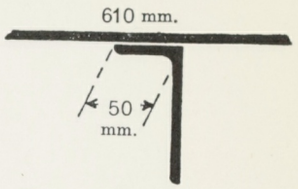
290 mm. DEPTH





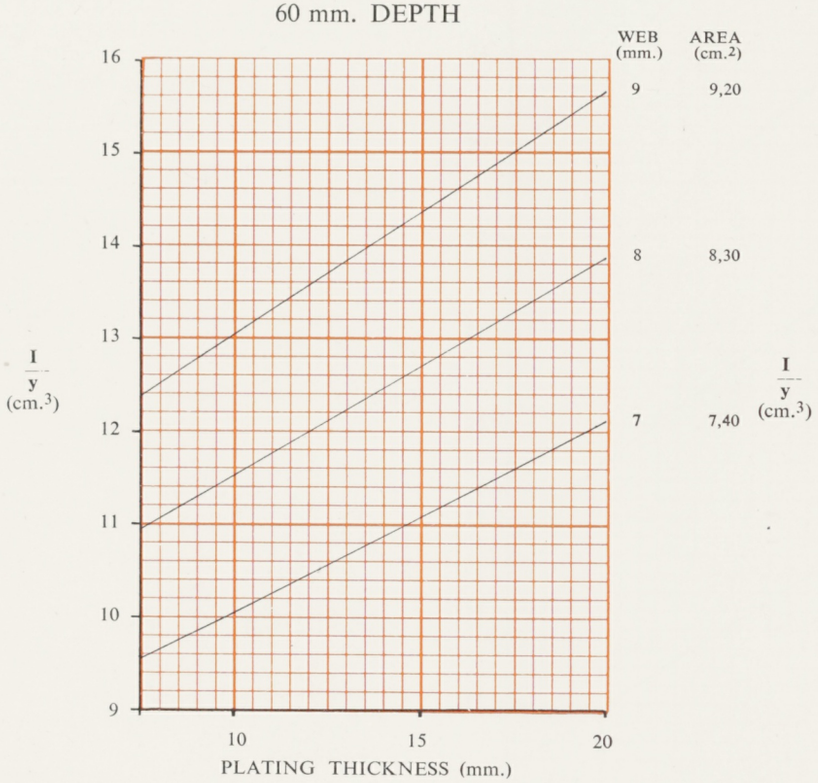
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

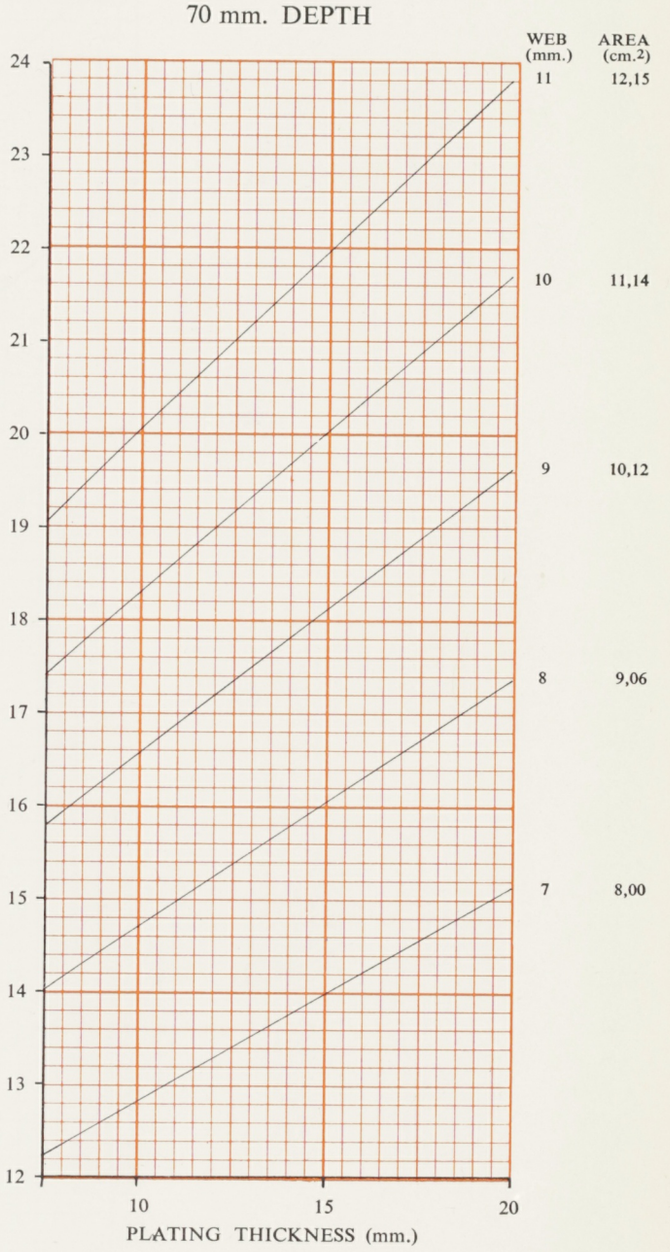


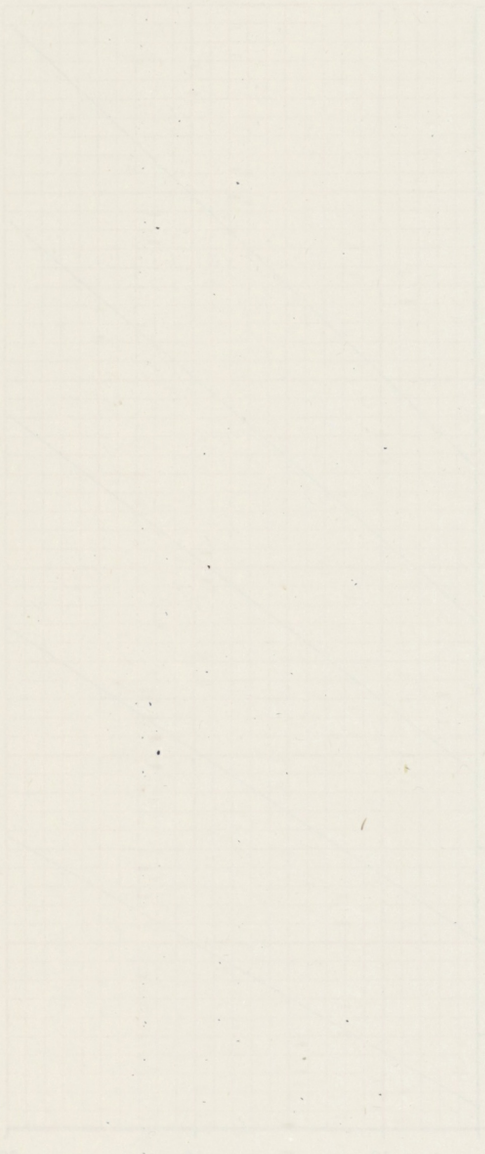
50 mm. FLANGE

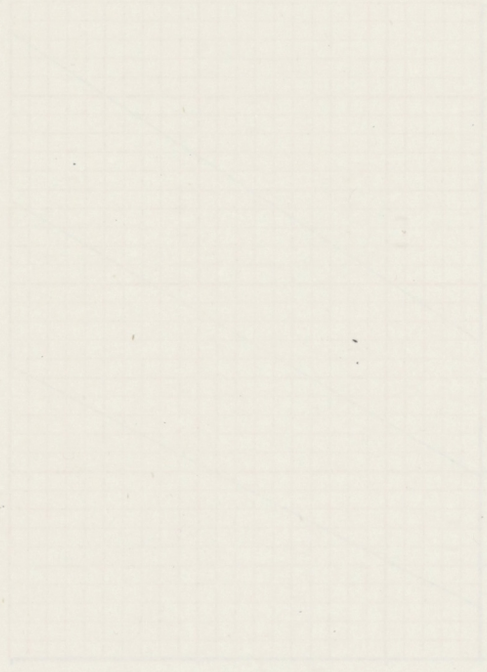
60 mm. DEPTH



70 mm. DEPTH



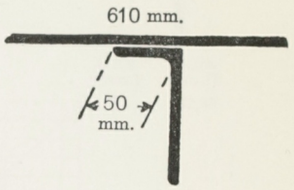




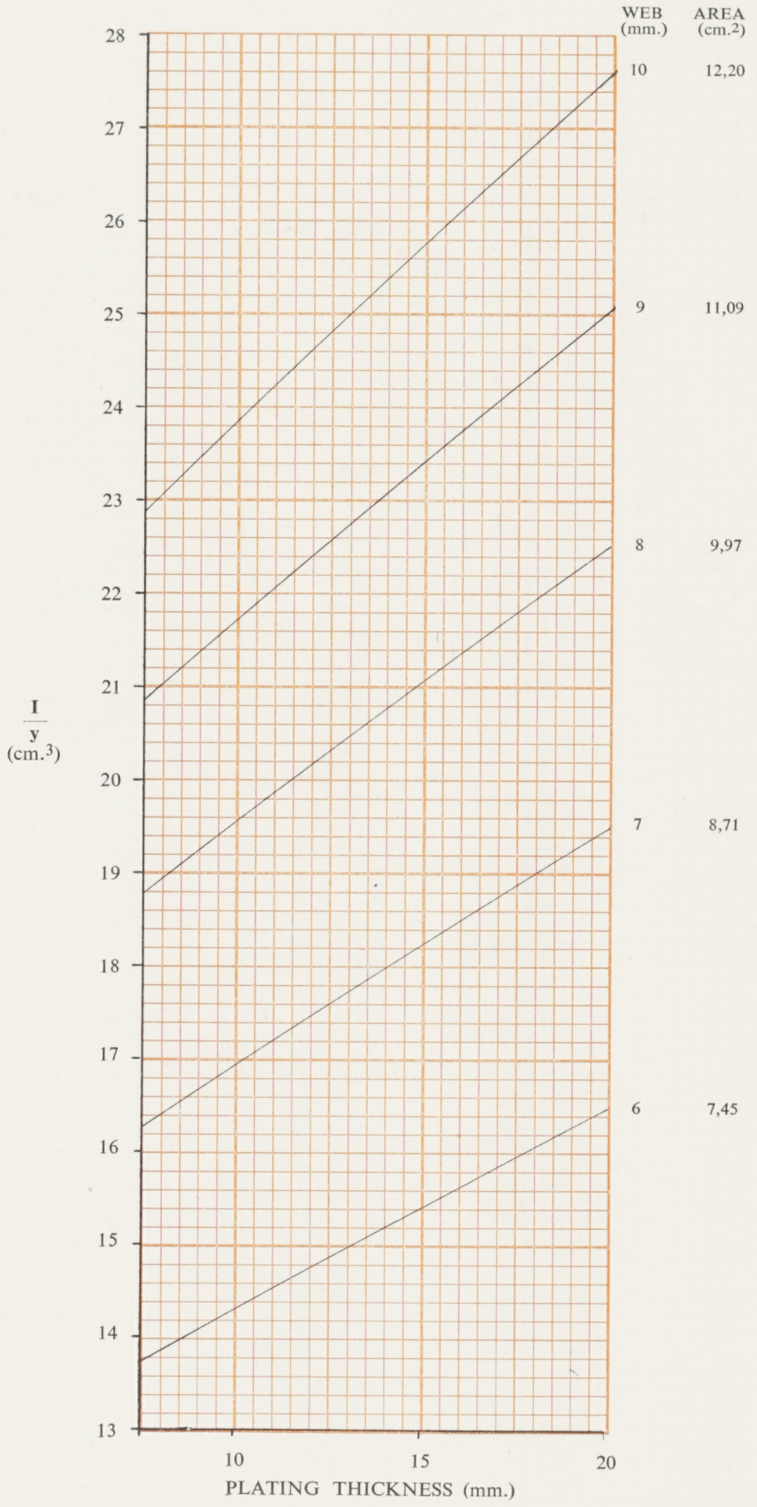
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

50 mm. FLANGE



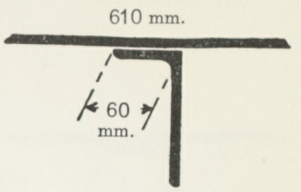
80 mm. DEPTH



SECTION MODULUS AND AREA OF ORDINARY ANGLES

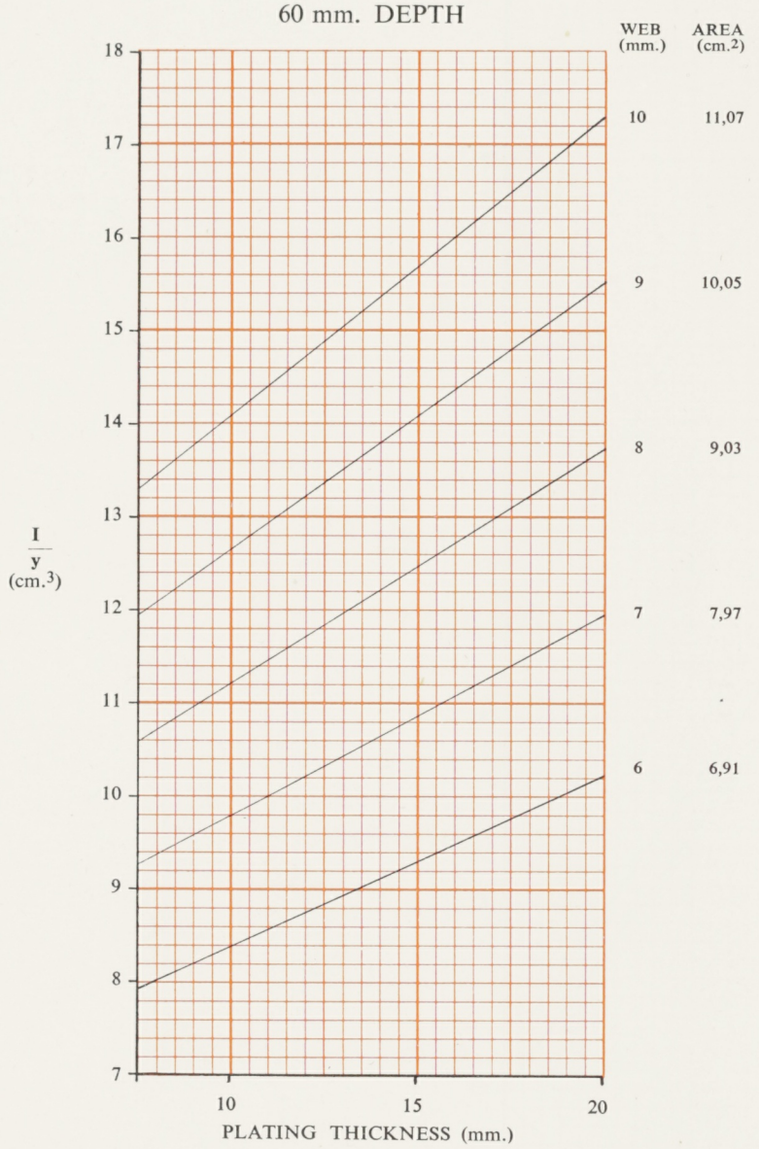
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

SPAIN

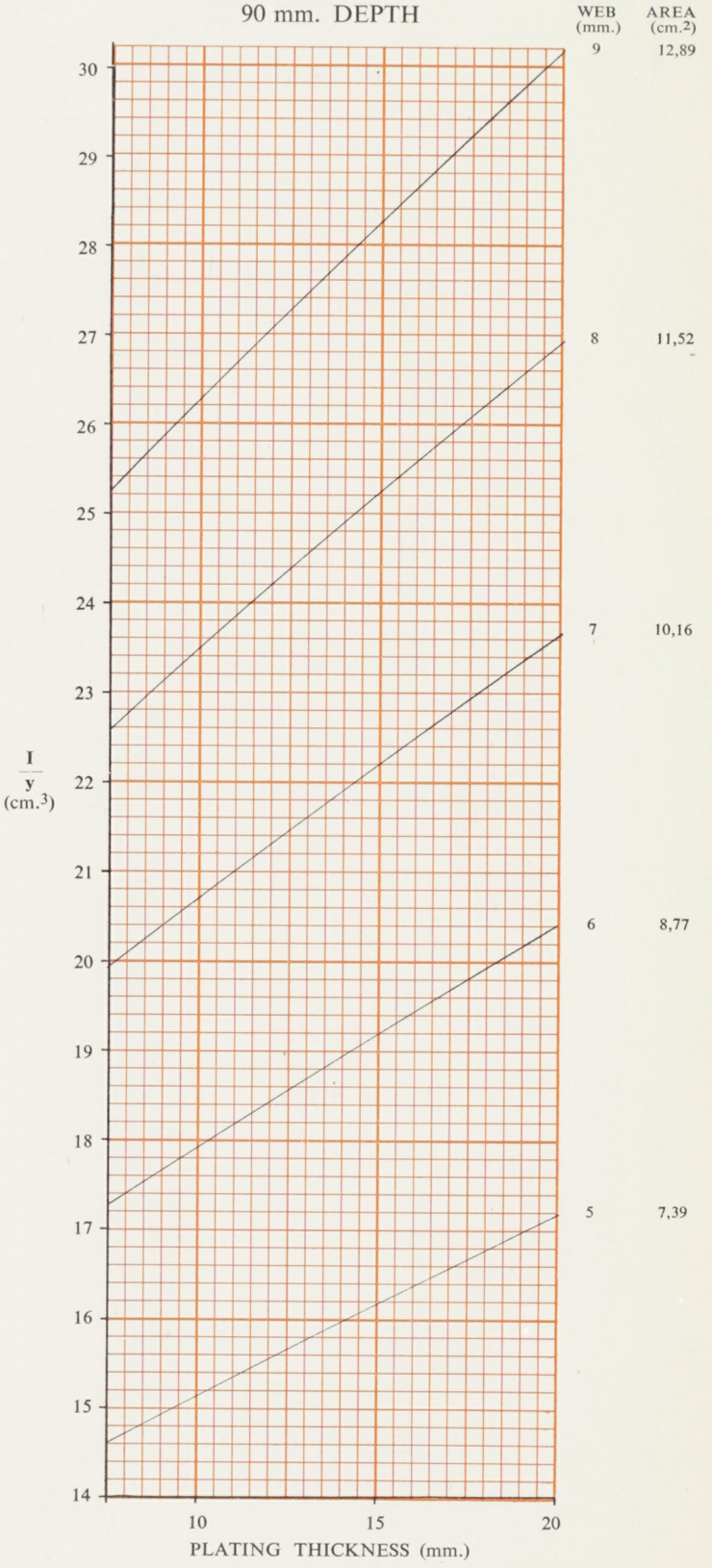


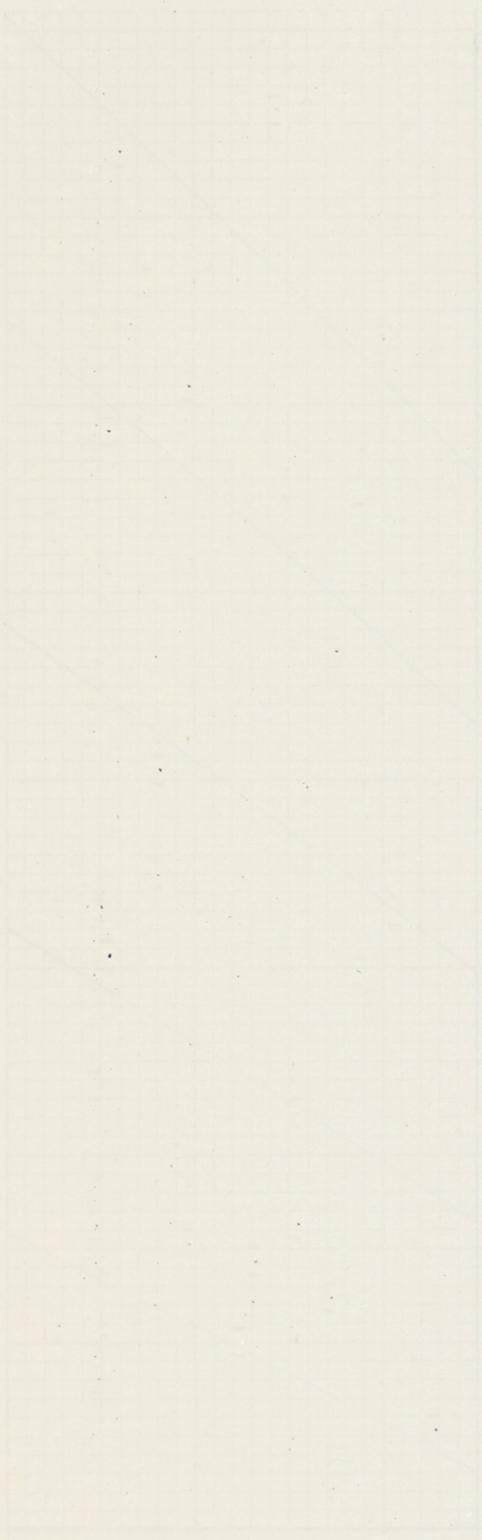
60 mm. FLANGE

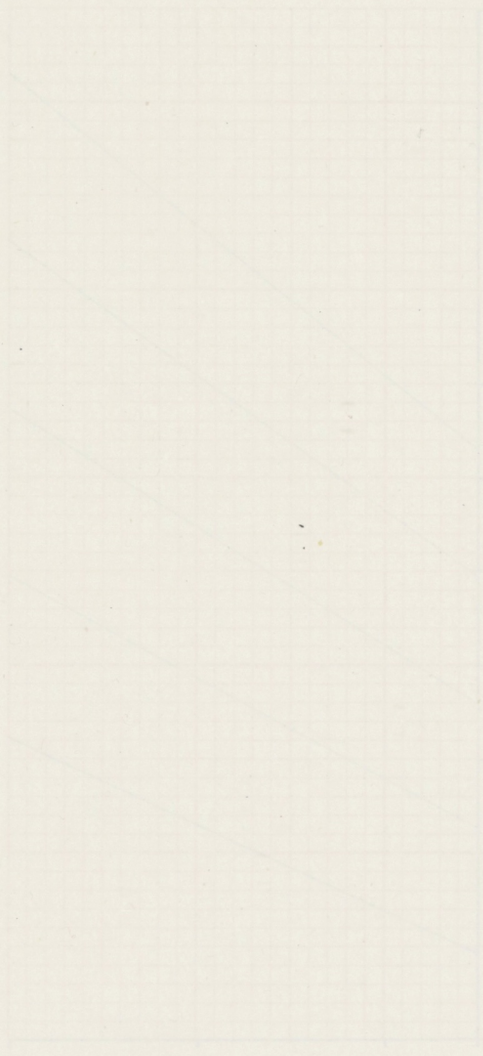
60 mm. DEPTH



90 mm. DEPTH





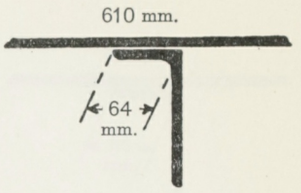


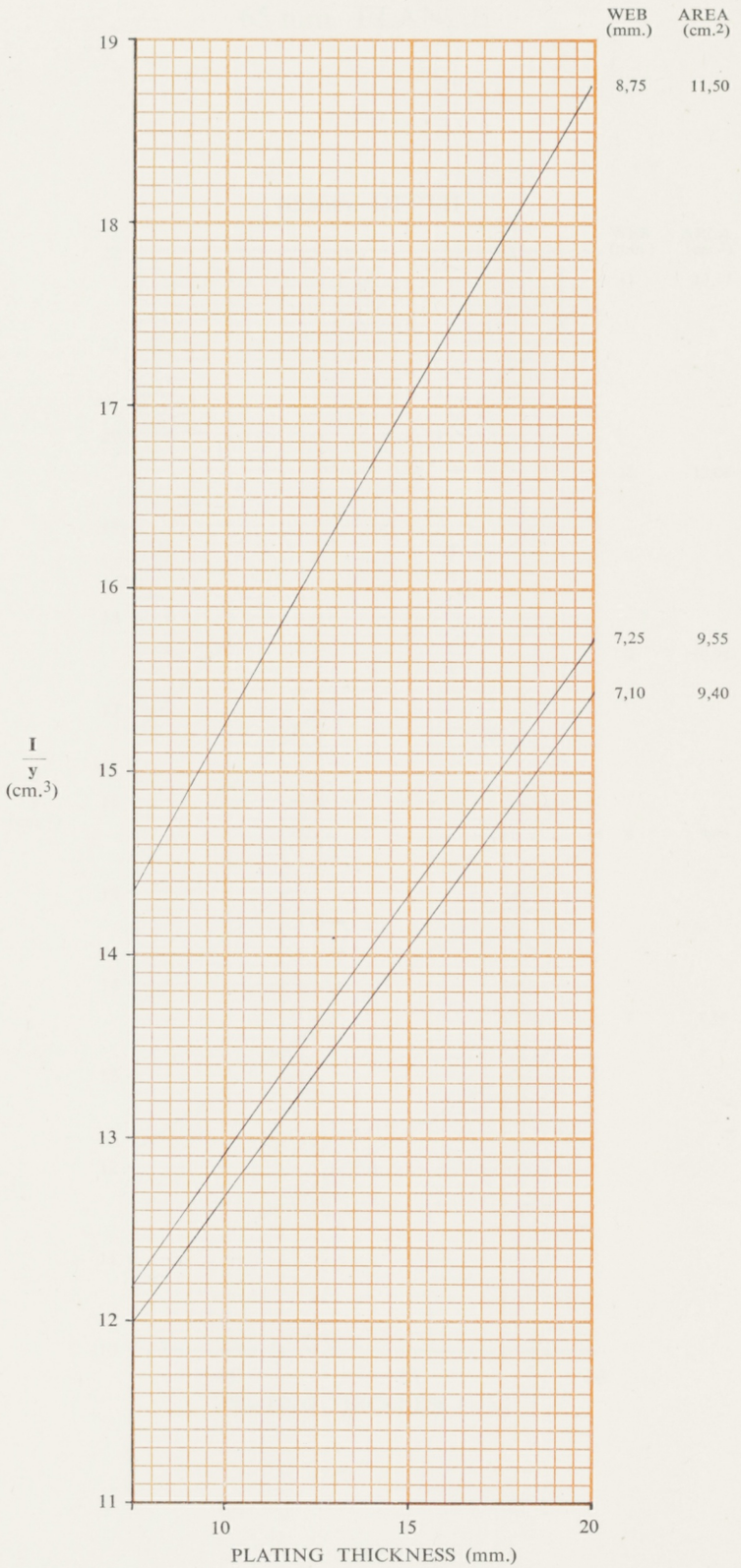
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

64 mm. FLANGE

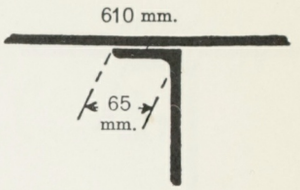
76 mm. DEPTH



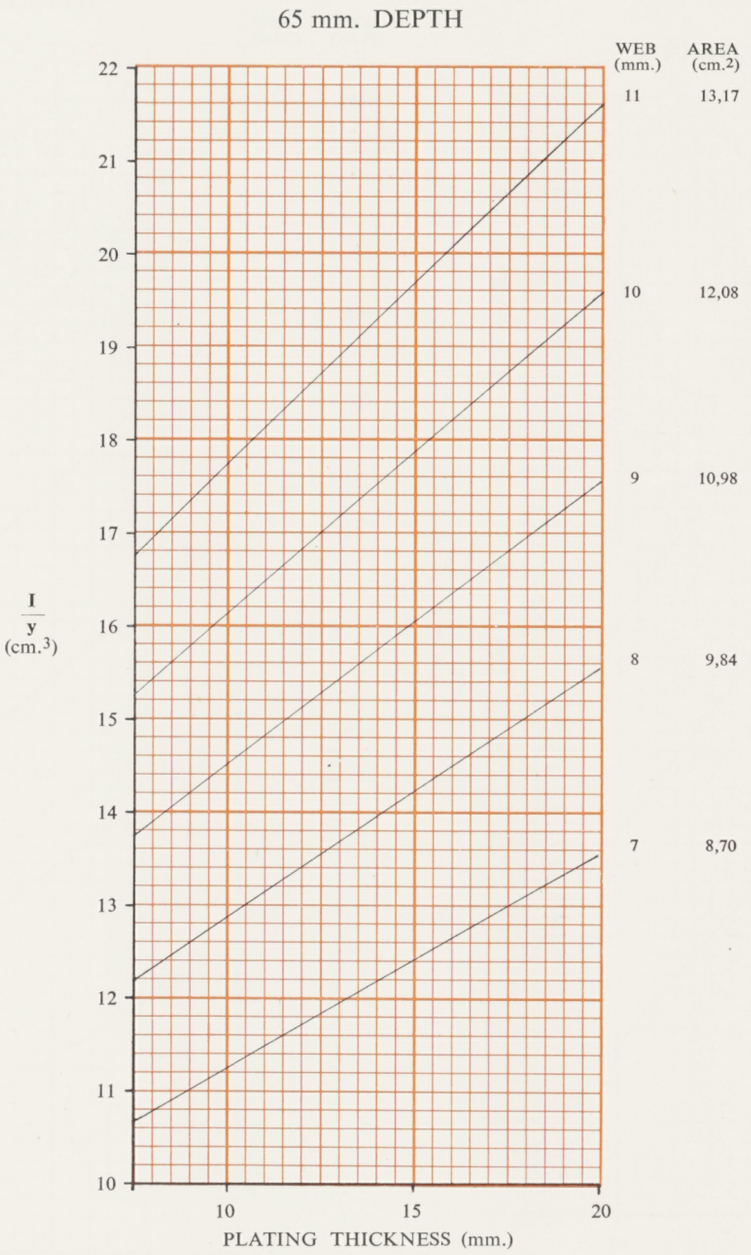


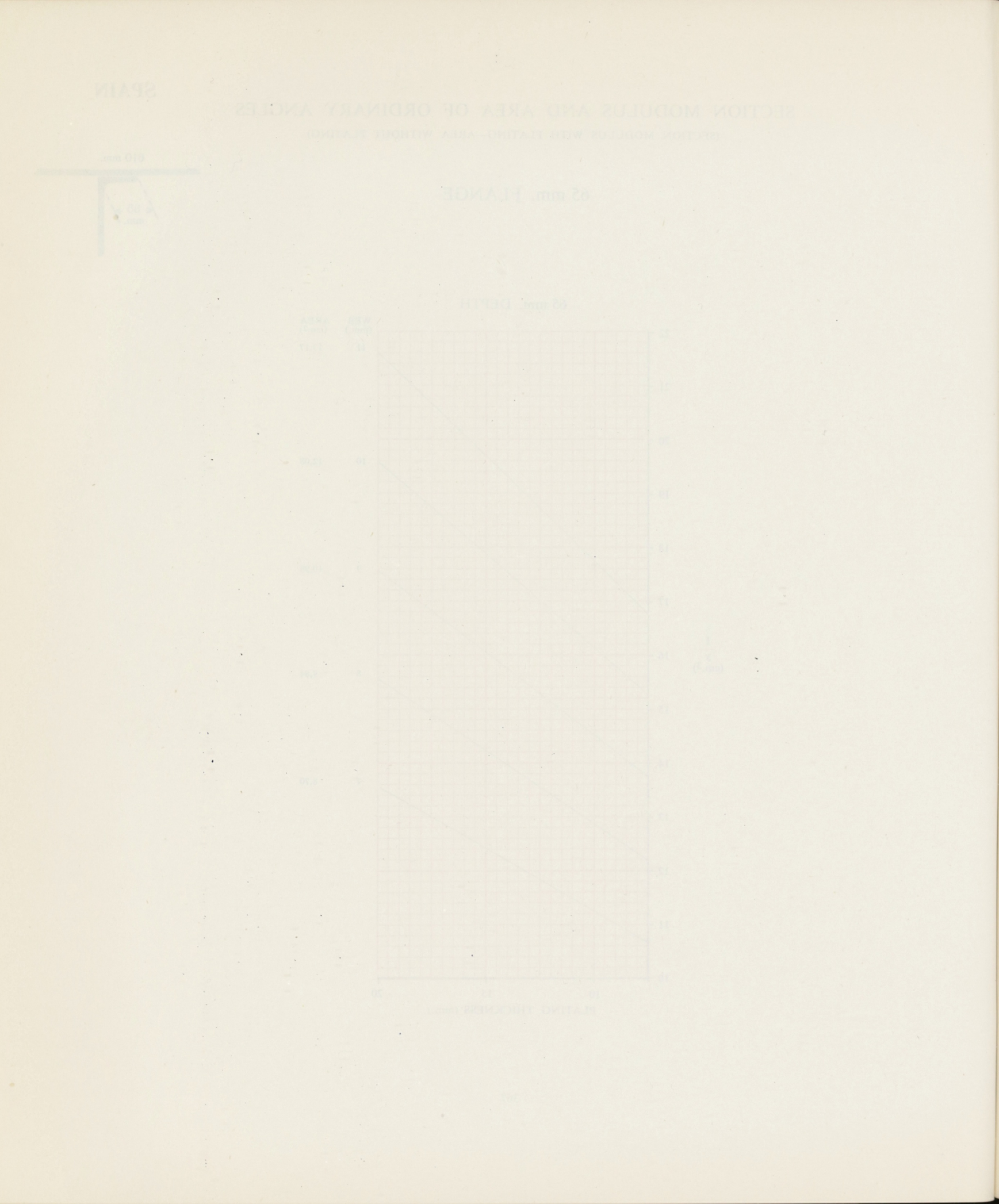
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



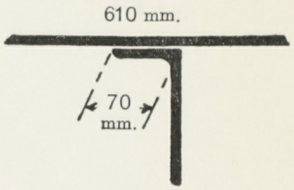
65 mm. FLANGE





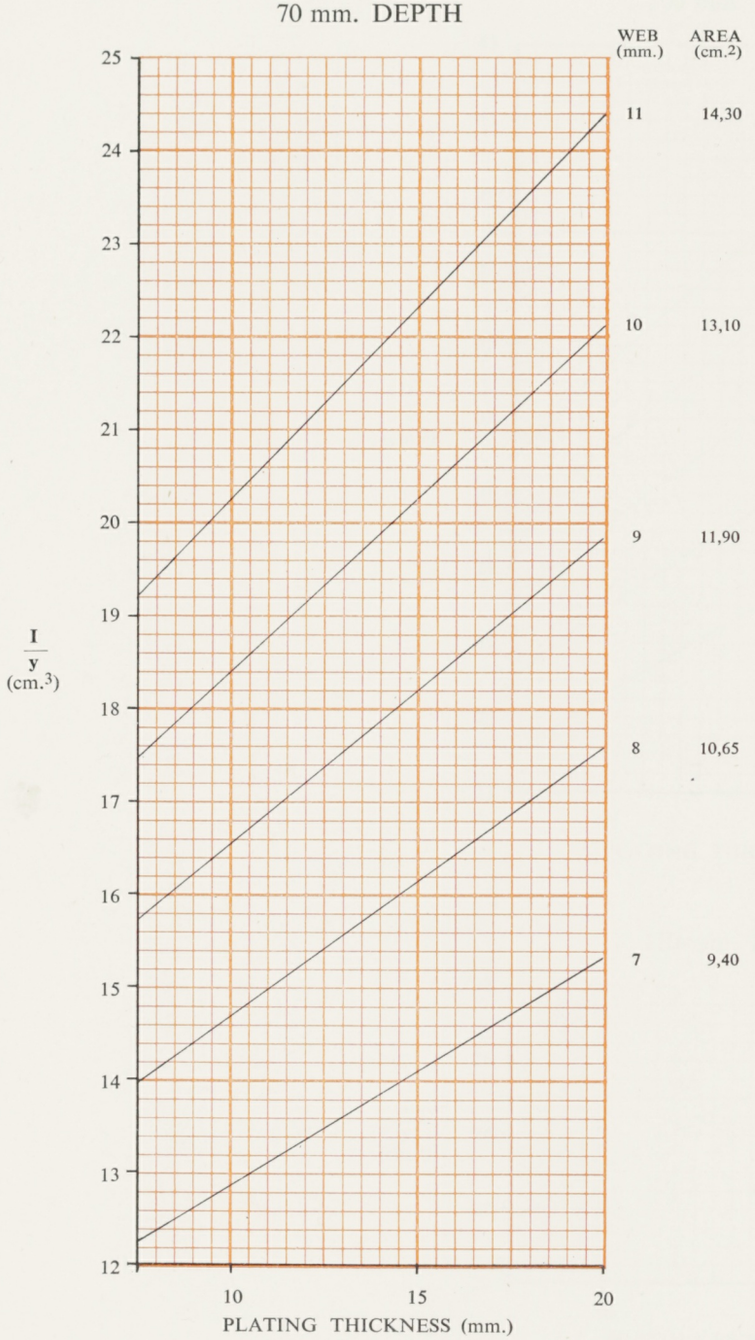
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

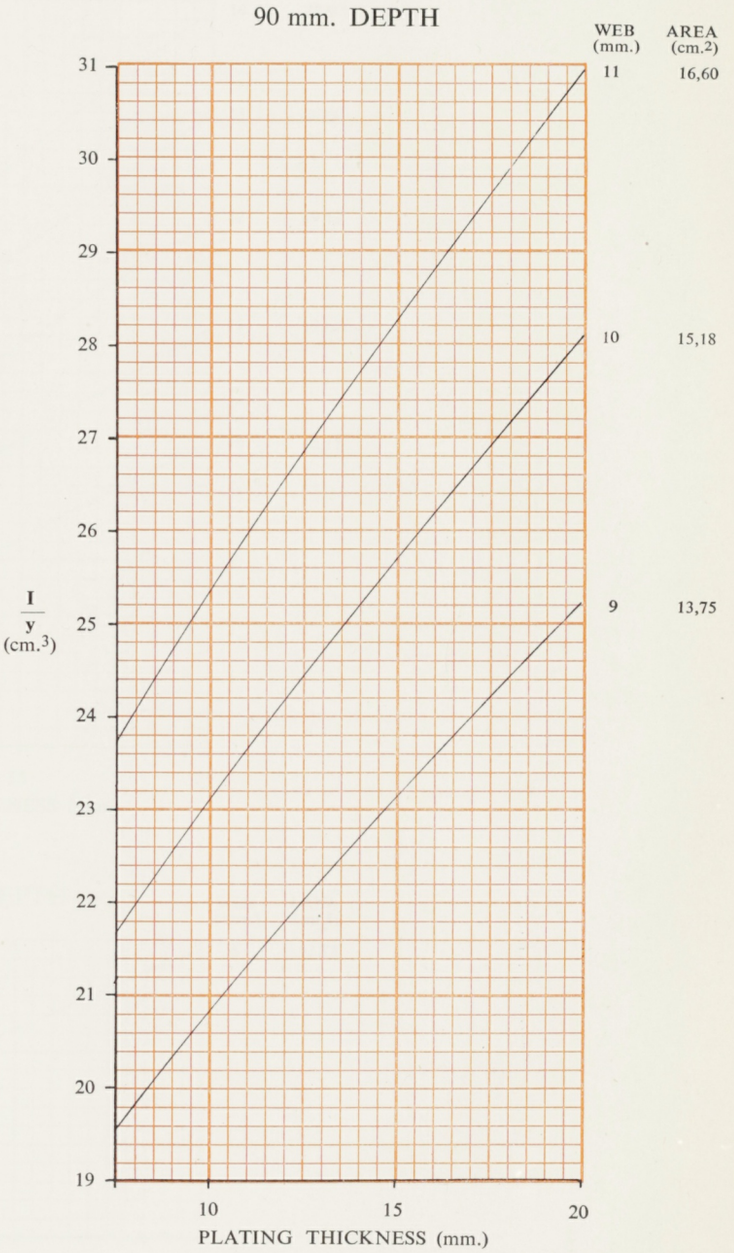


70 mm. FLANGE

70 mm. DEPTH

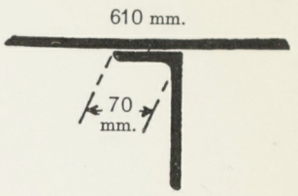


90 mm. DEPTH



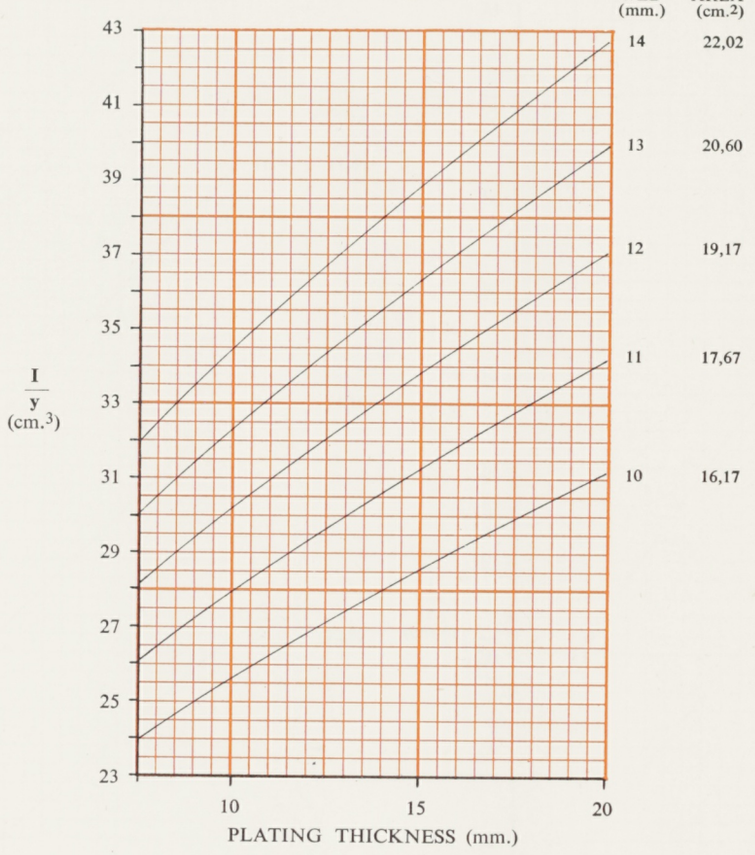
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

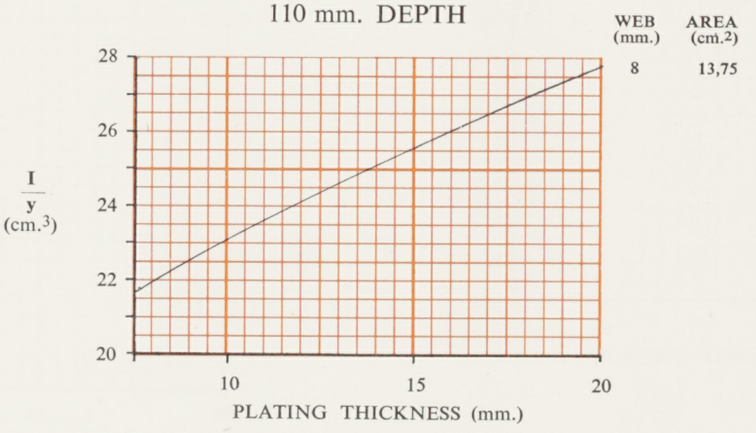


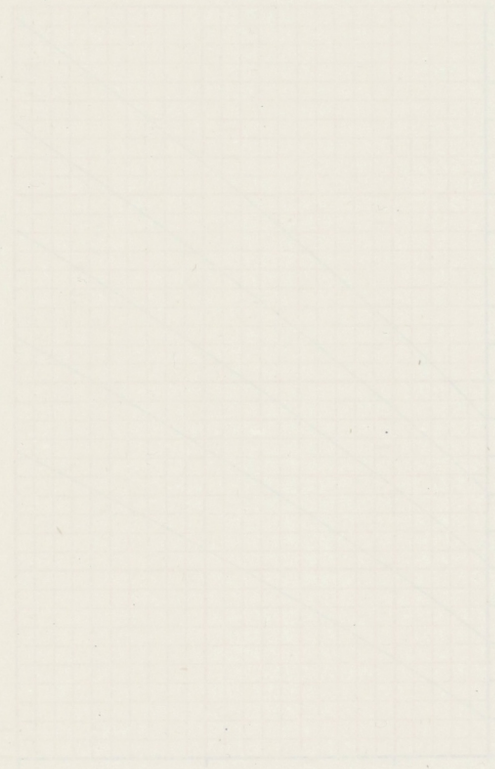
70 mm. FLANGE

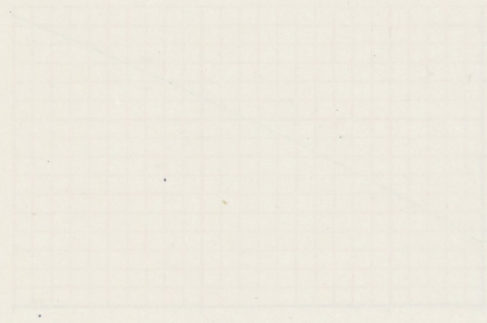
100 mm. DEPTH



110 mm. DEPTH



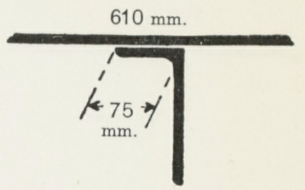




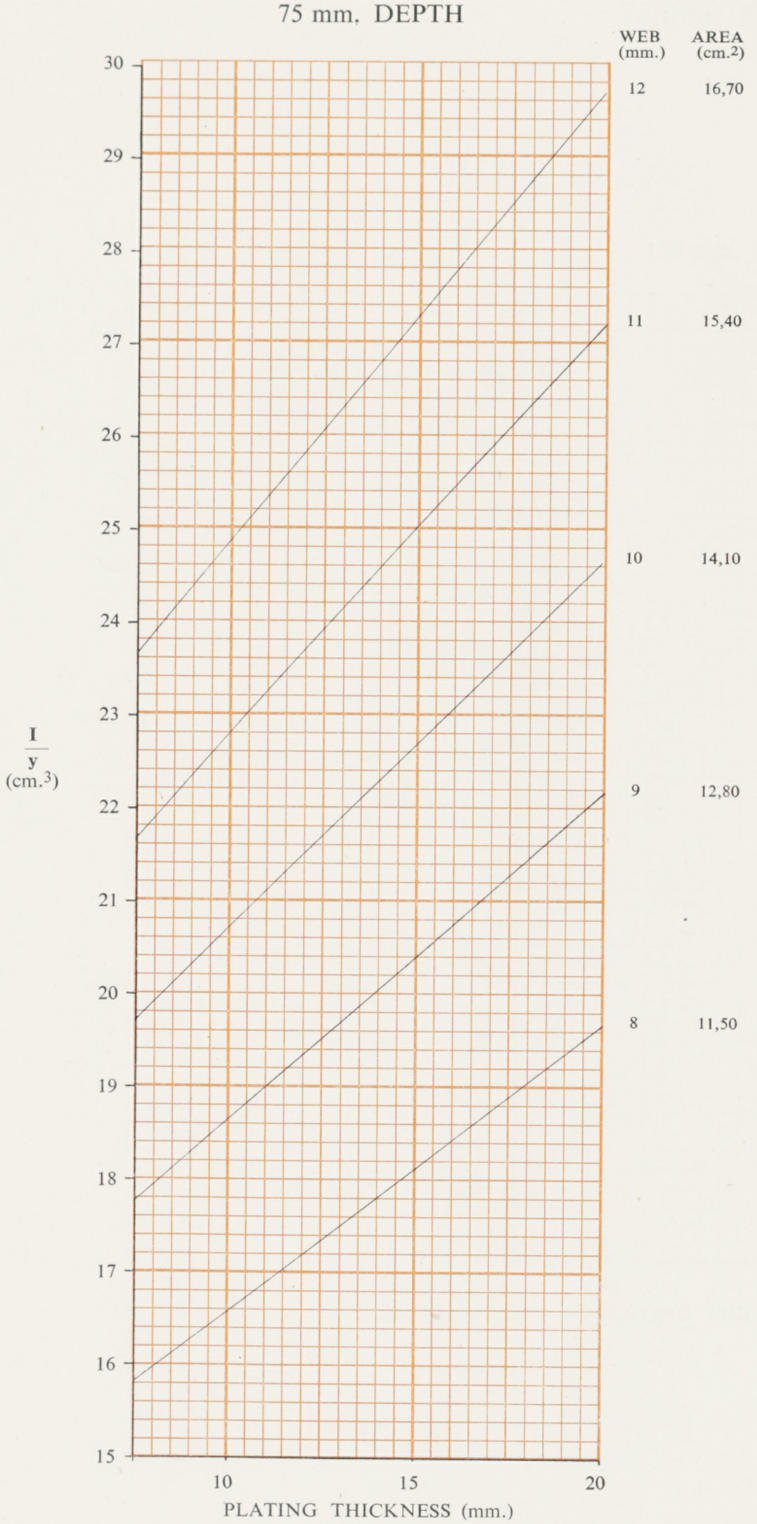
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

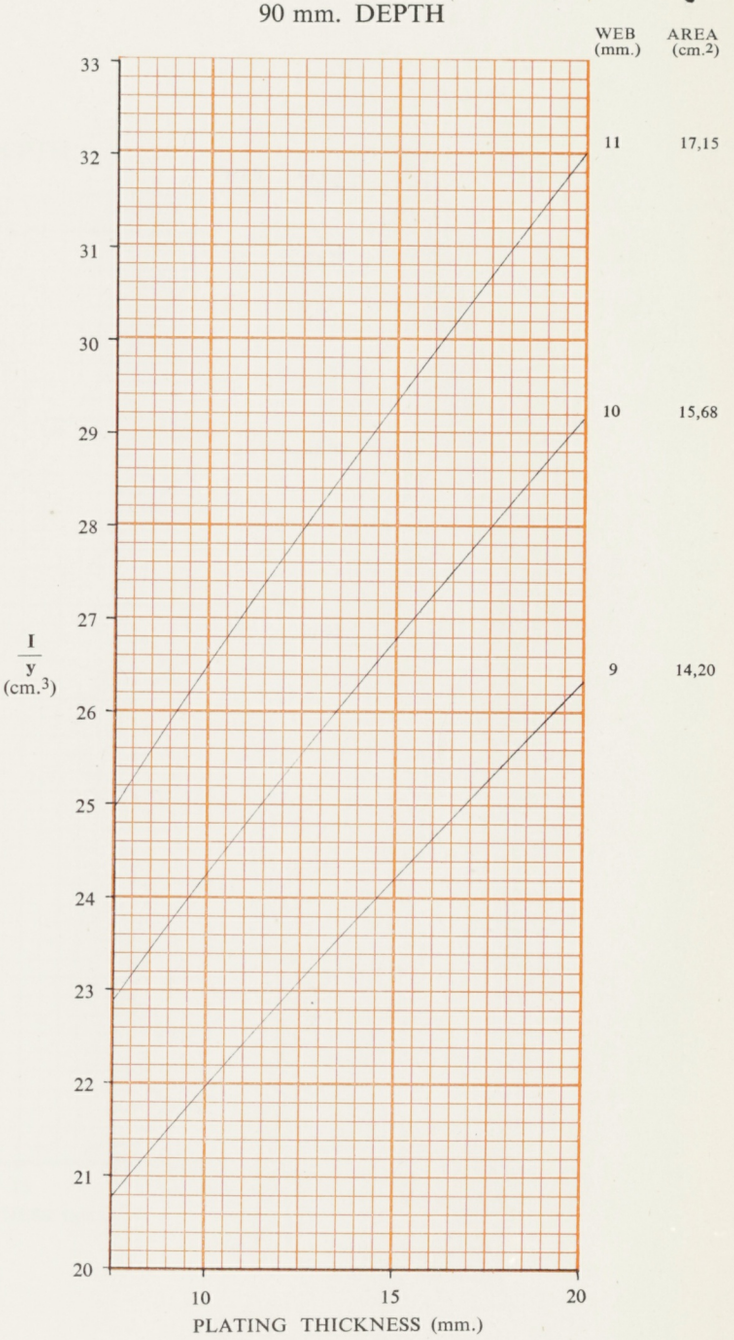
75 mm. FLANGE



75 mm. DEPTH



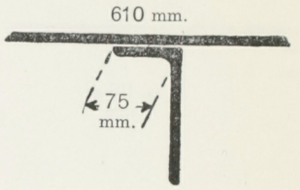
90 mm. DEPTH



AAA

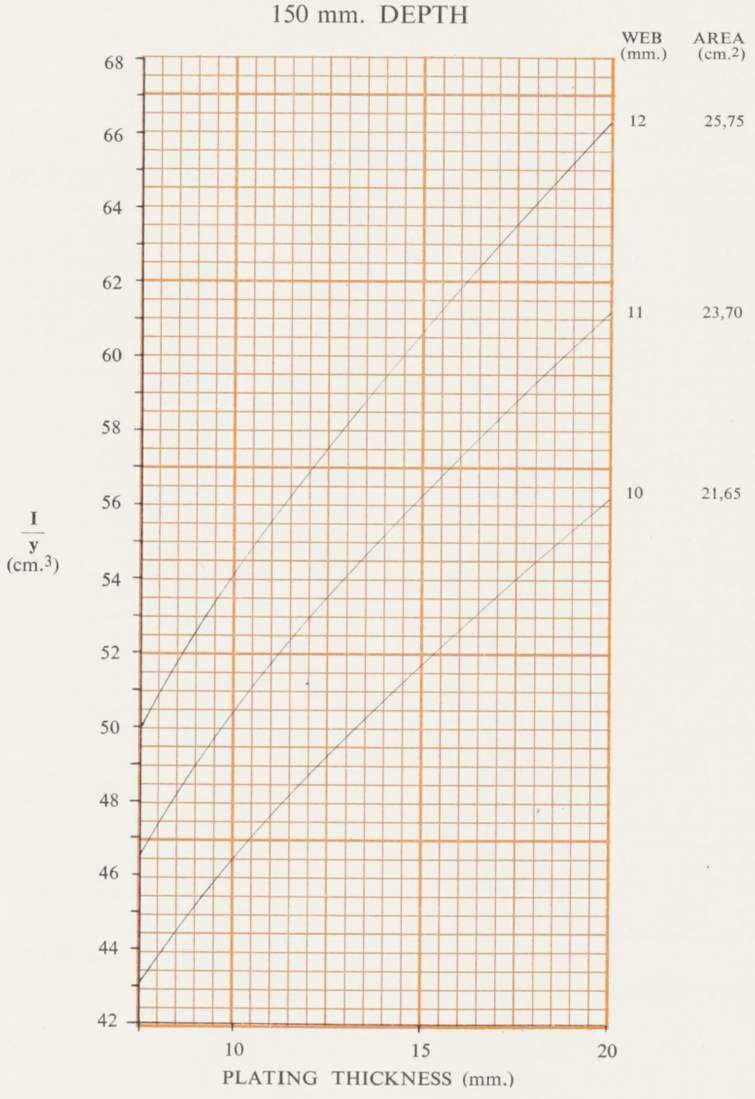
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



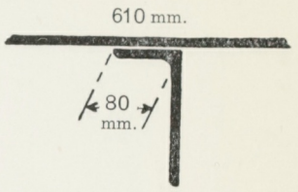
75 mm. FLANGE

150 mm. DEPTH



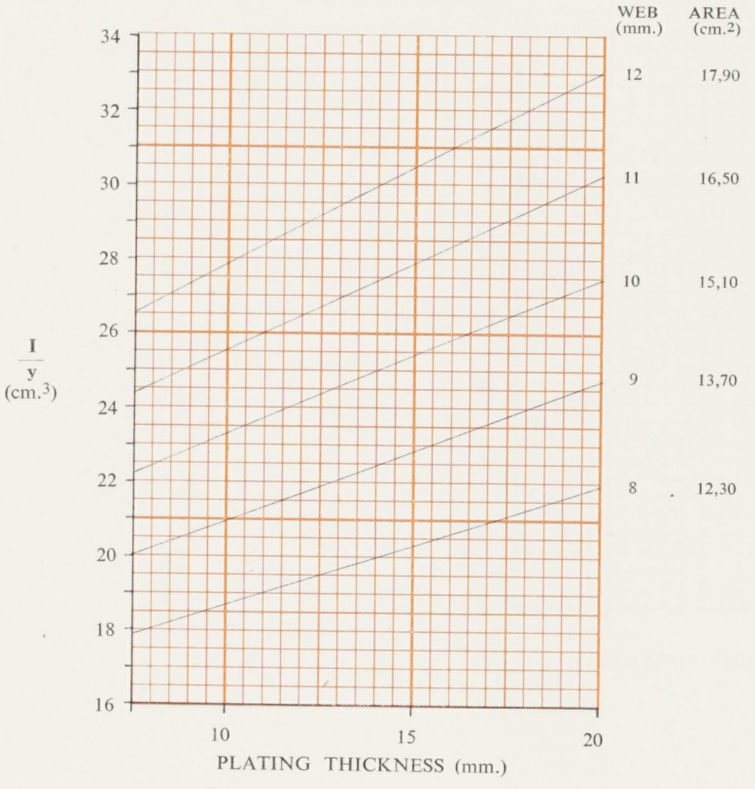
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

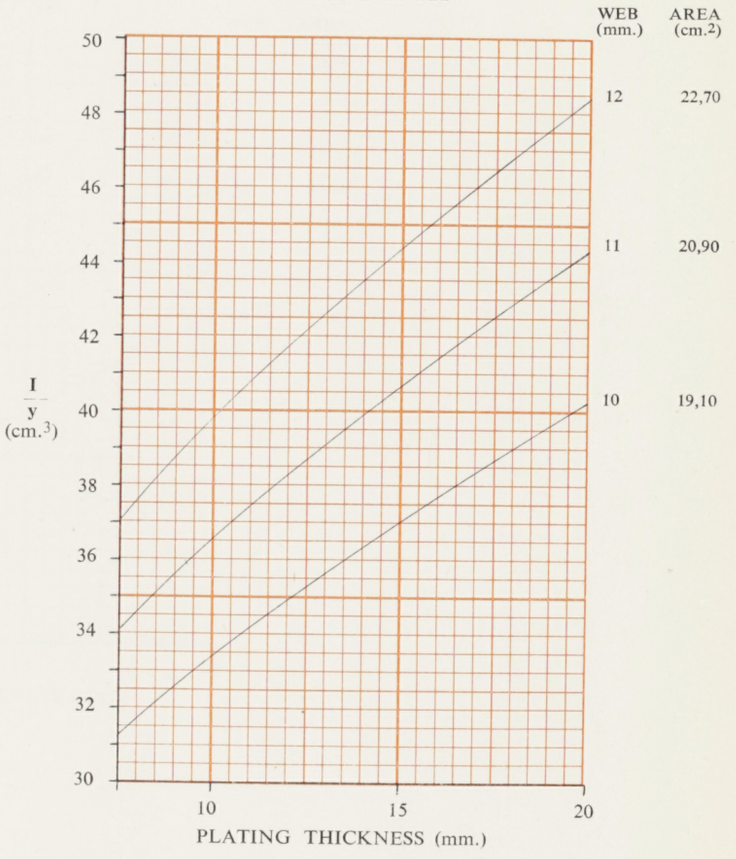


80 mm. FLANGE

80 mm. DEPTH

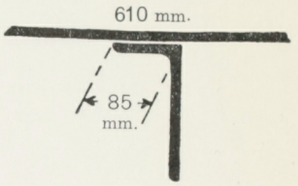


120 mm. DEPTH



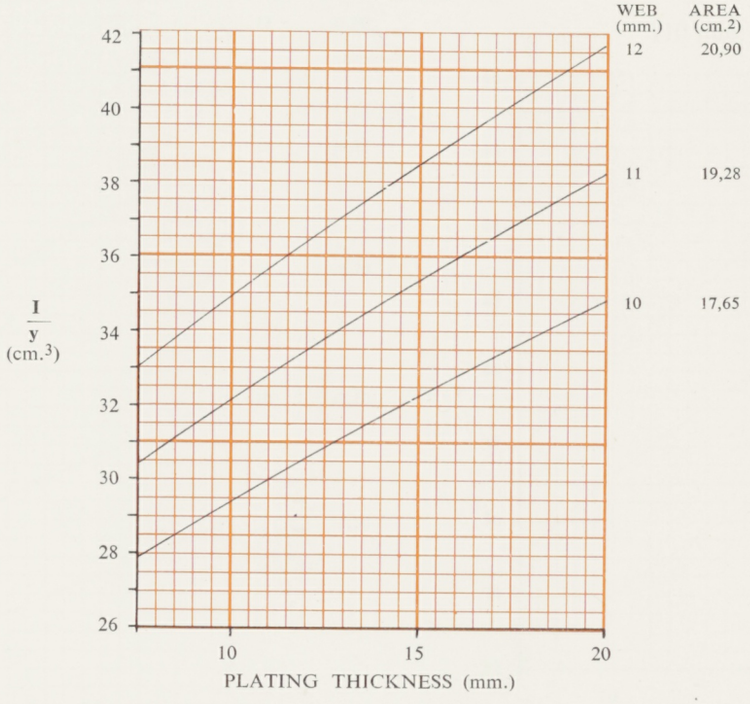
SECTION MODULUS AND AREA OF ORDINARY ANGLES

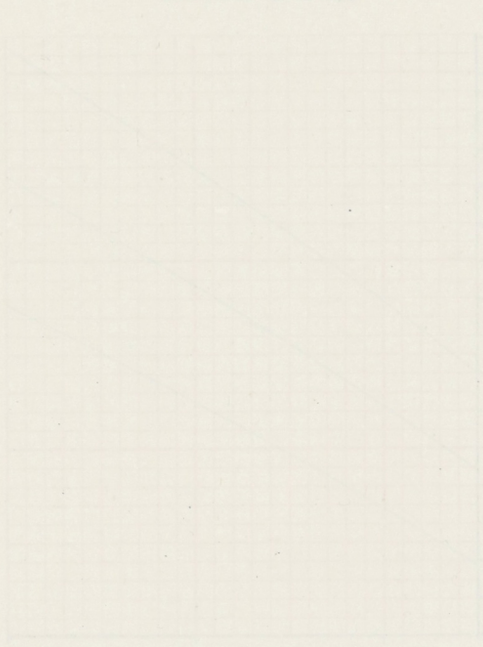
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



85 mm. FLANGE

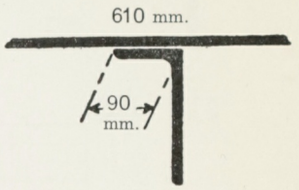
100 mm. DEPTH





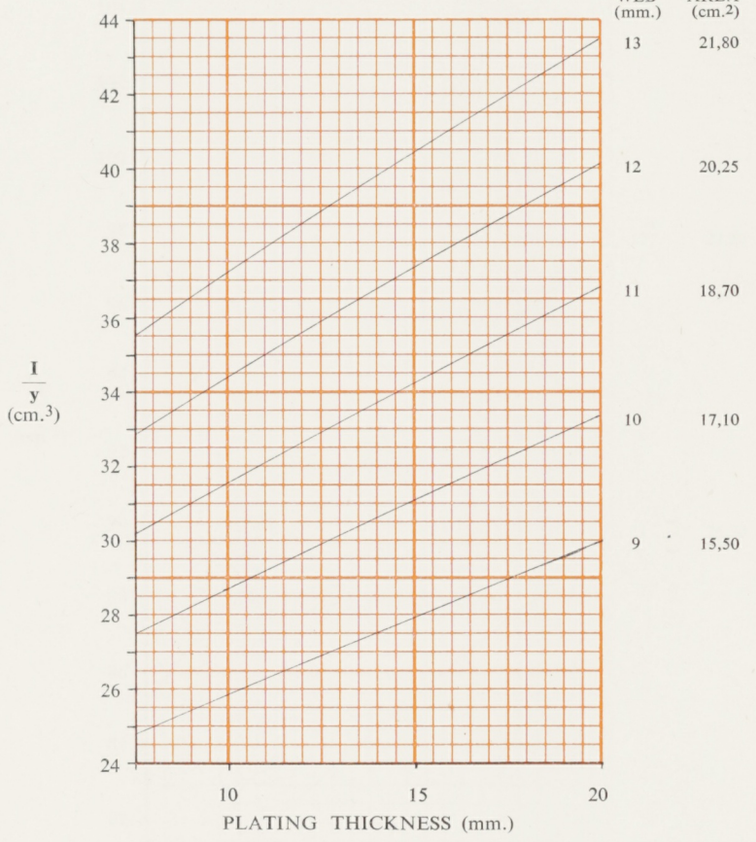
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

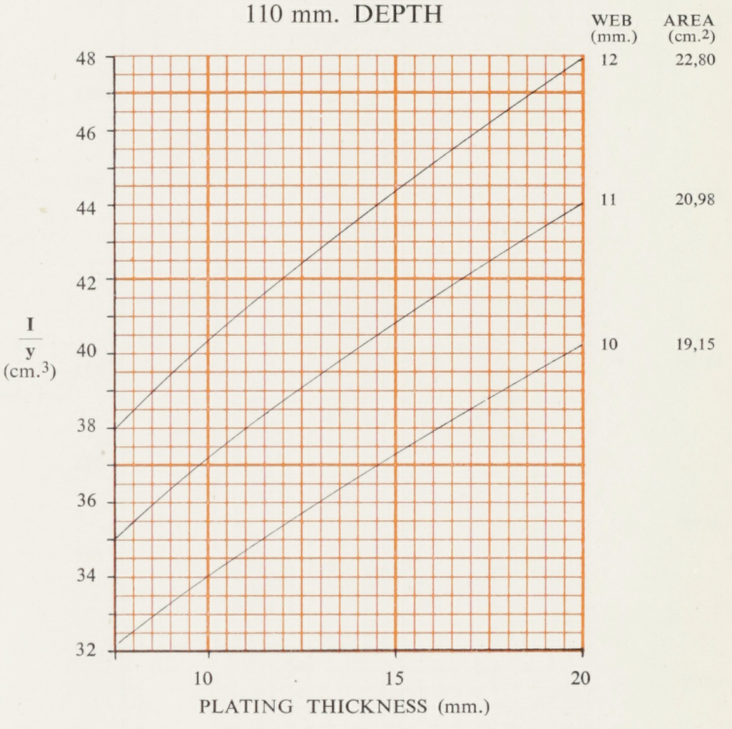


90 mm. FLANGE

90 mm. DEPTH



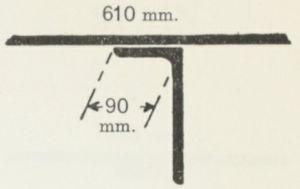
110 mm. DEPTH



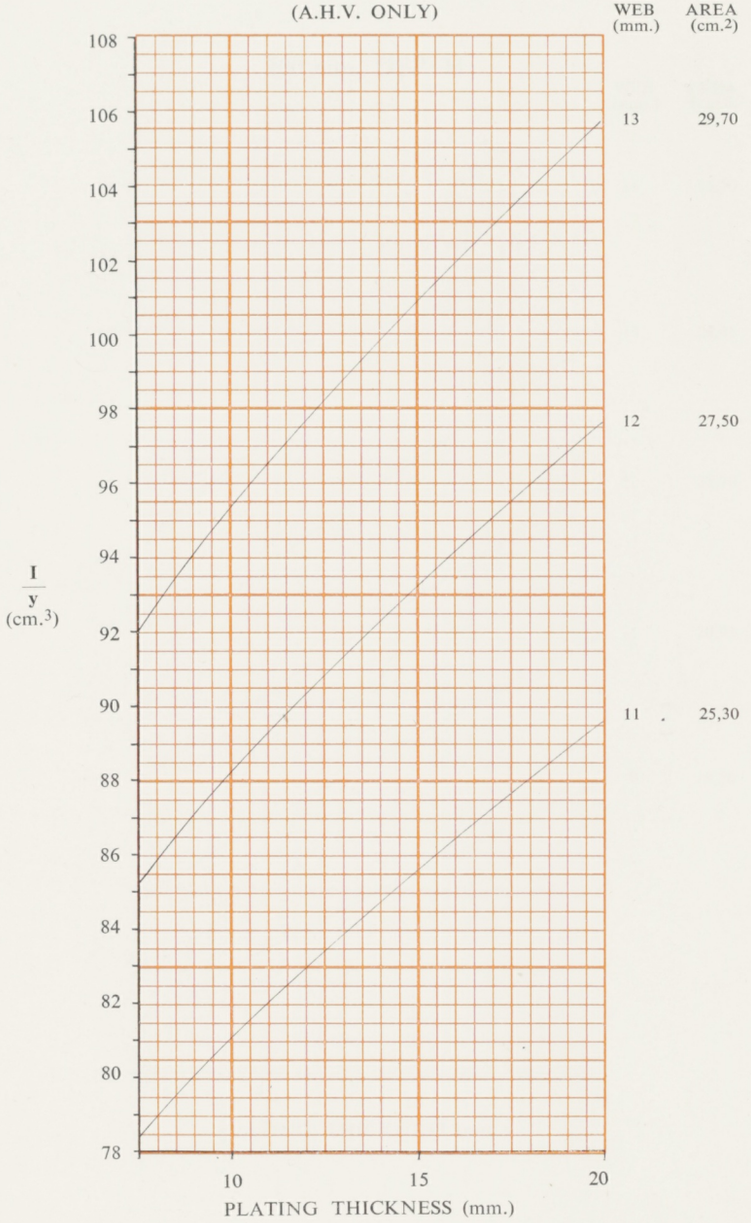
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

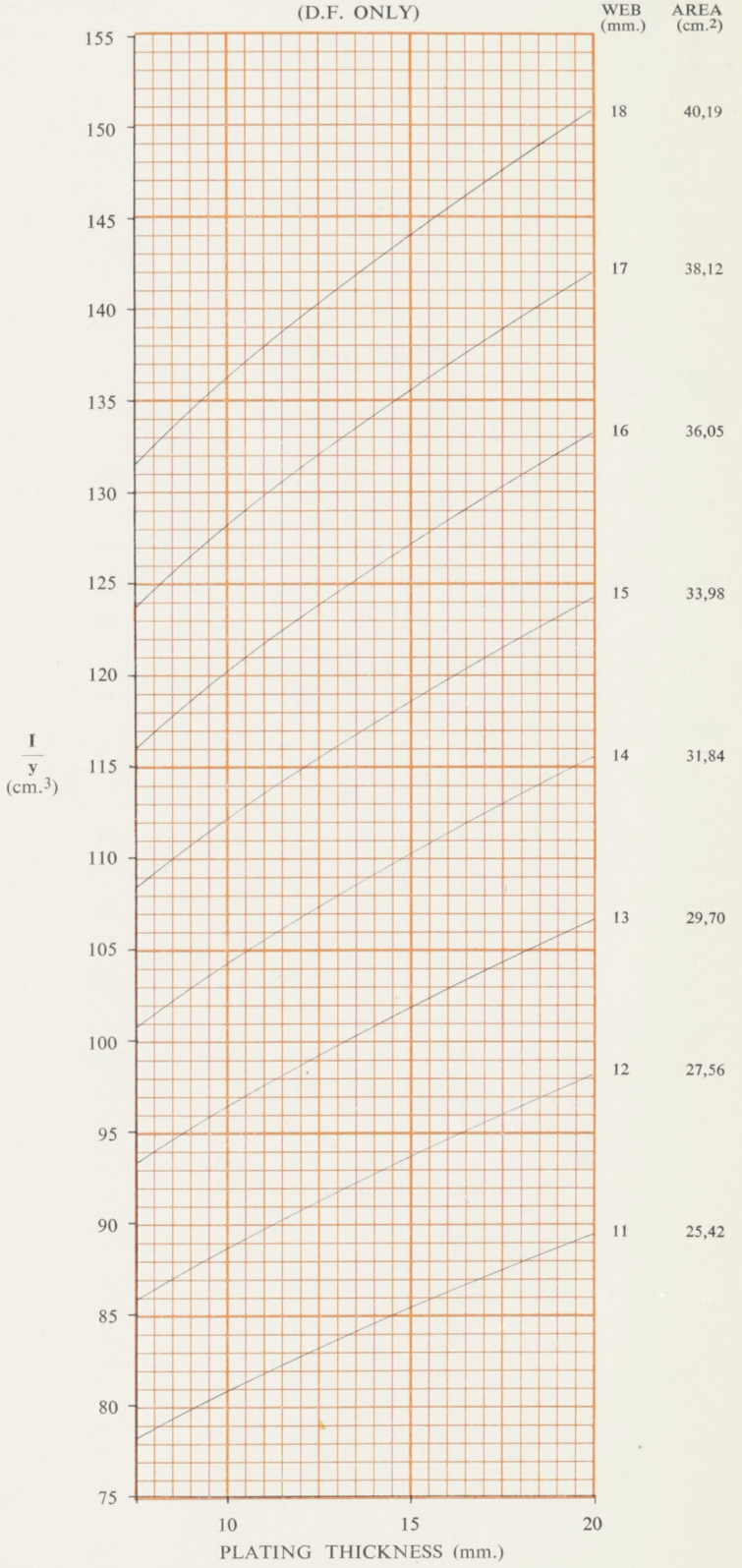
90 mm. FLANGE

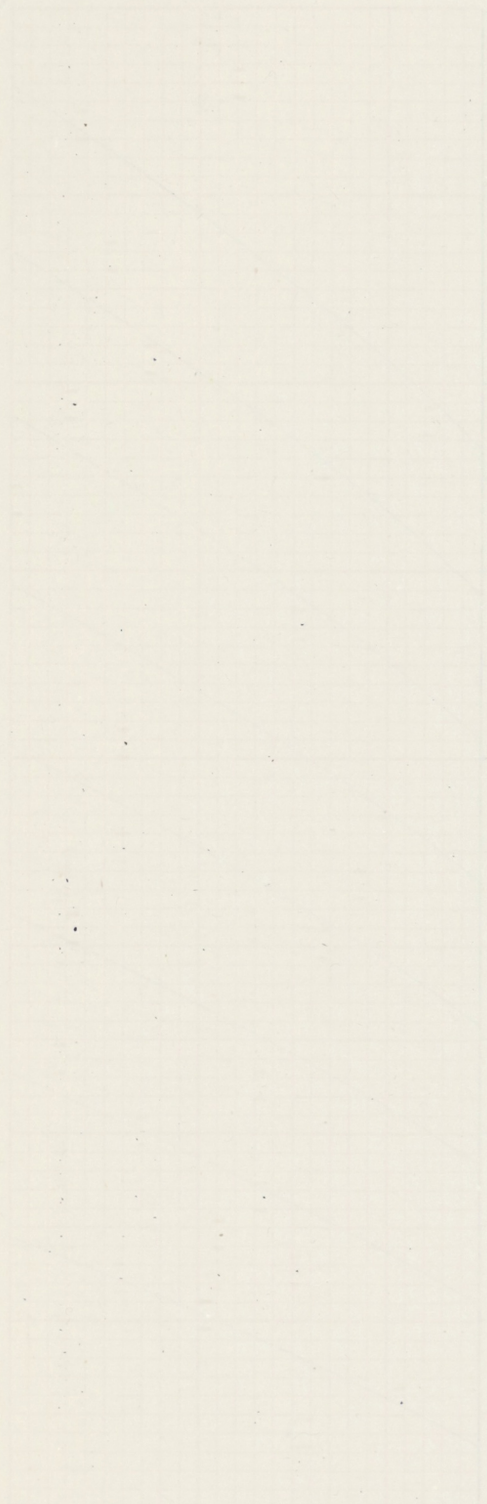


150 mm. DEPTH
(A.H.V. ONLY)



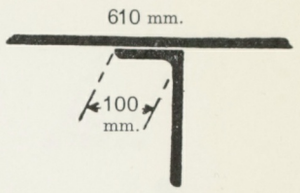
150 mm. DEPTH
(D.F. ONLY)





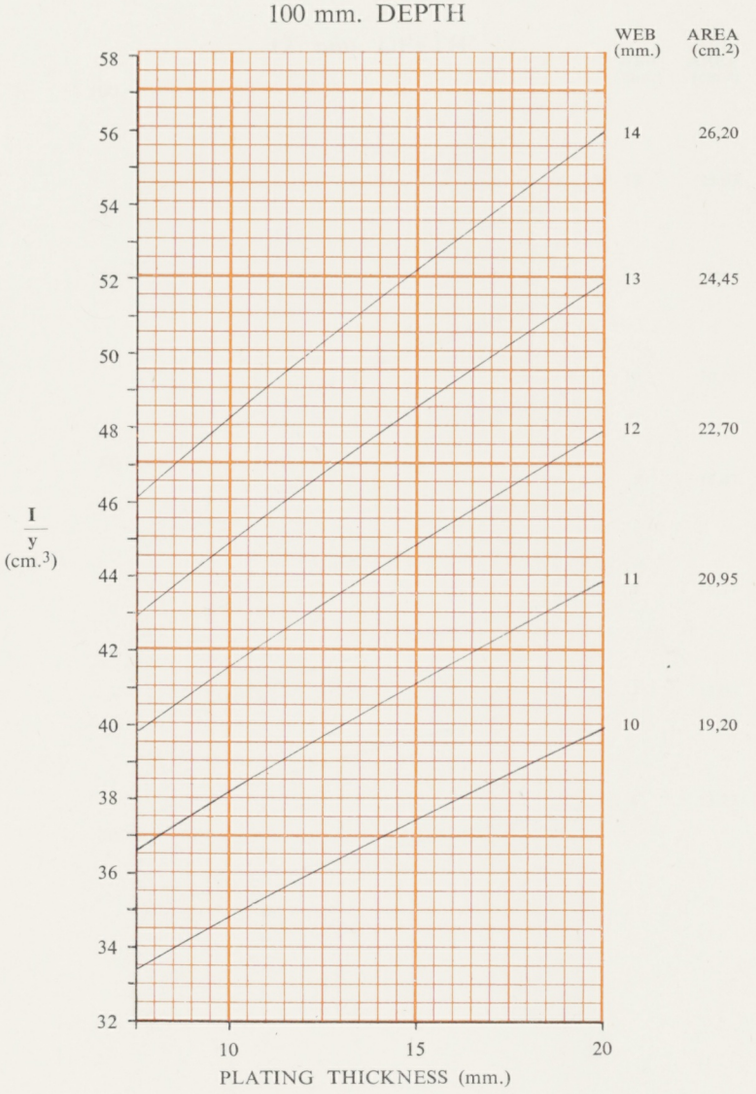
SECTION MODULUS AND AREA OF ORDINARY ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

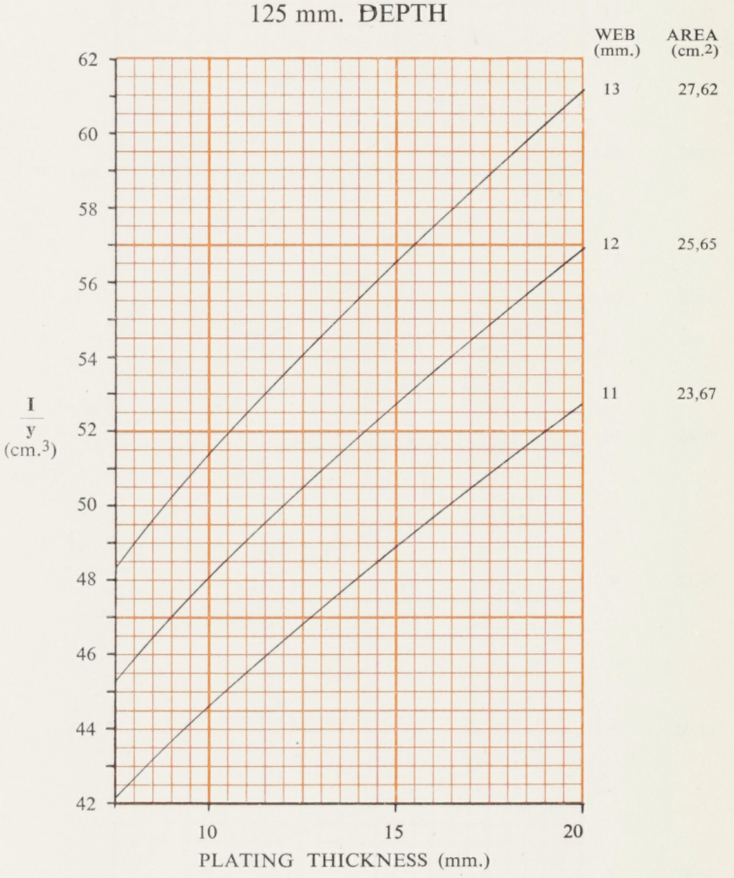


100 mm. FLANGE

100 mm. DEPTH

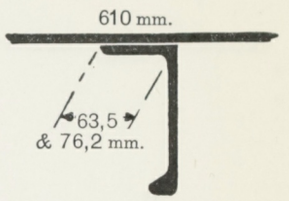


125 mm. DEPTH



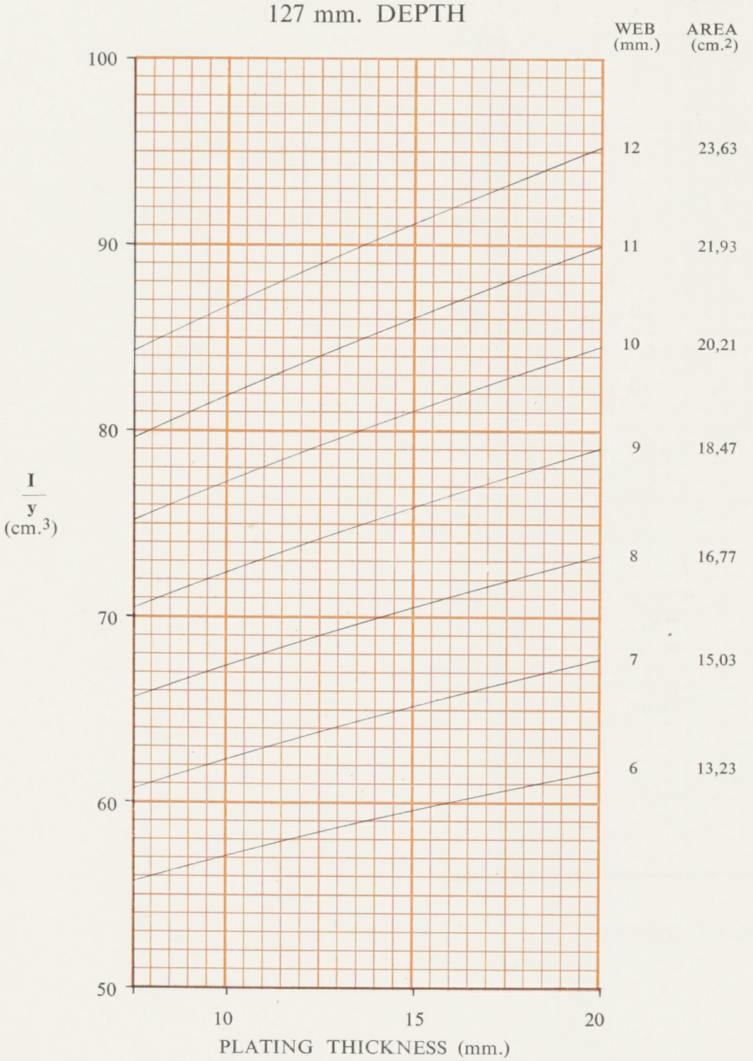
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



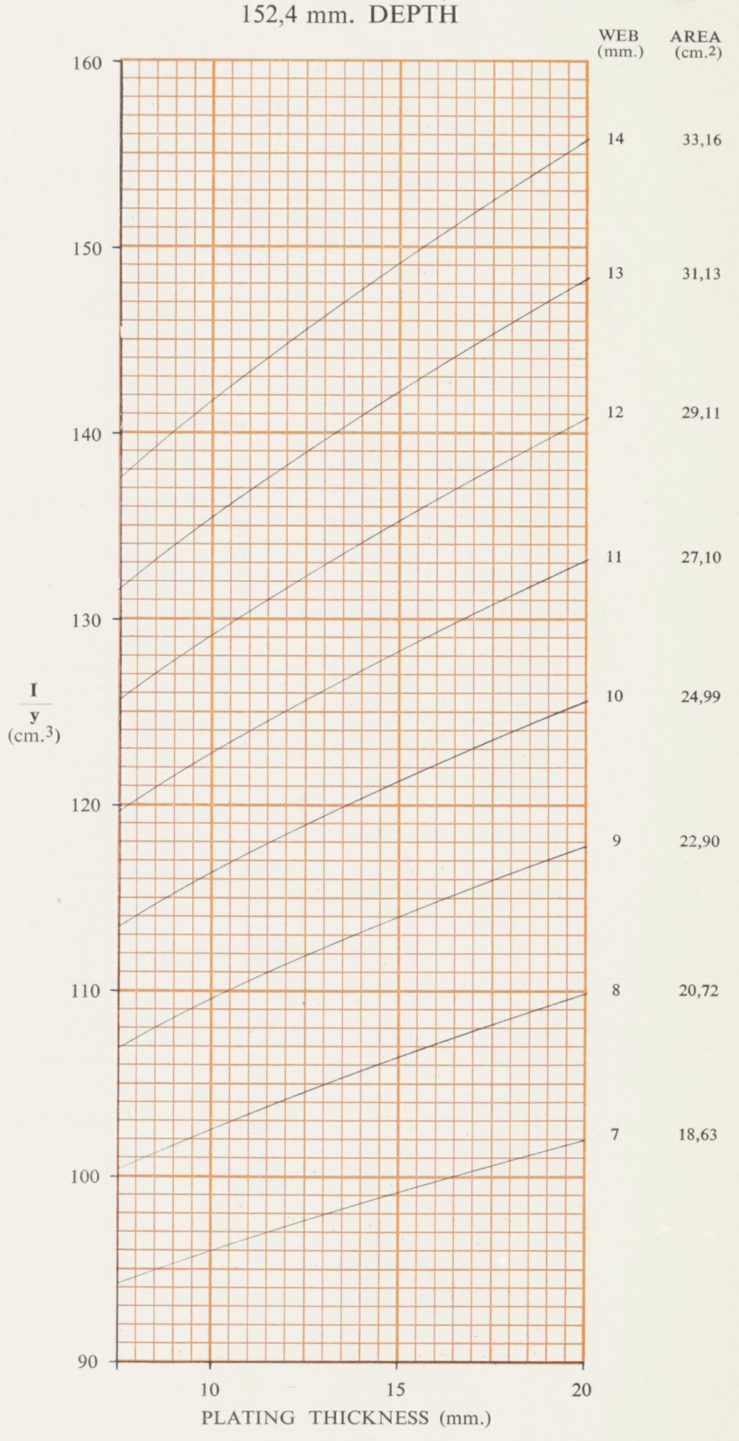
63,5 mm. FLANGE

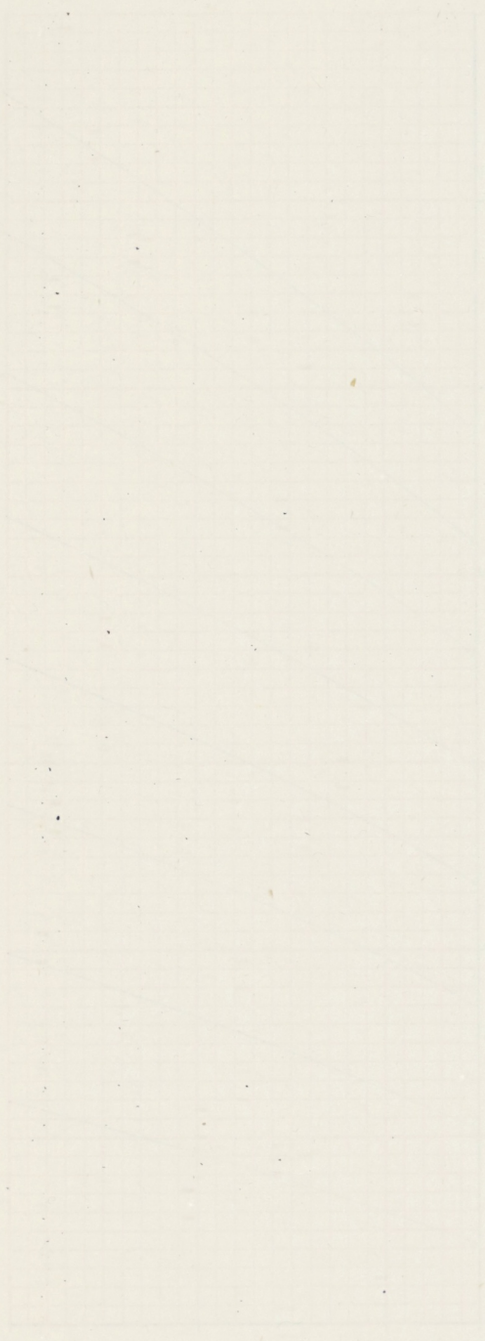
127 mm. DEPTH



76,2 mm. FLANGE

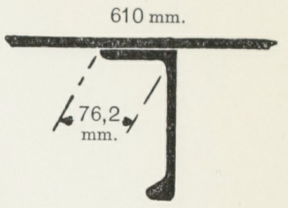
152,4 mm. DEPTH





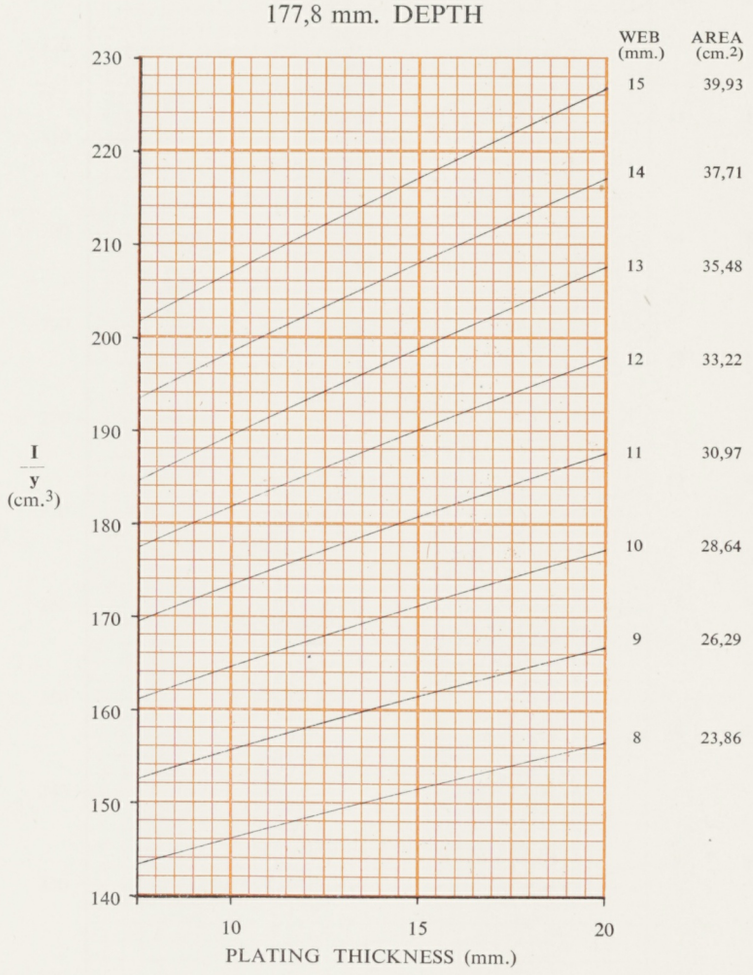
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



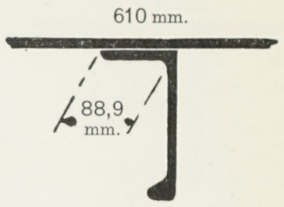
76,2 mm. FLANGE

177,8 mm. DEPTH



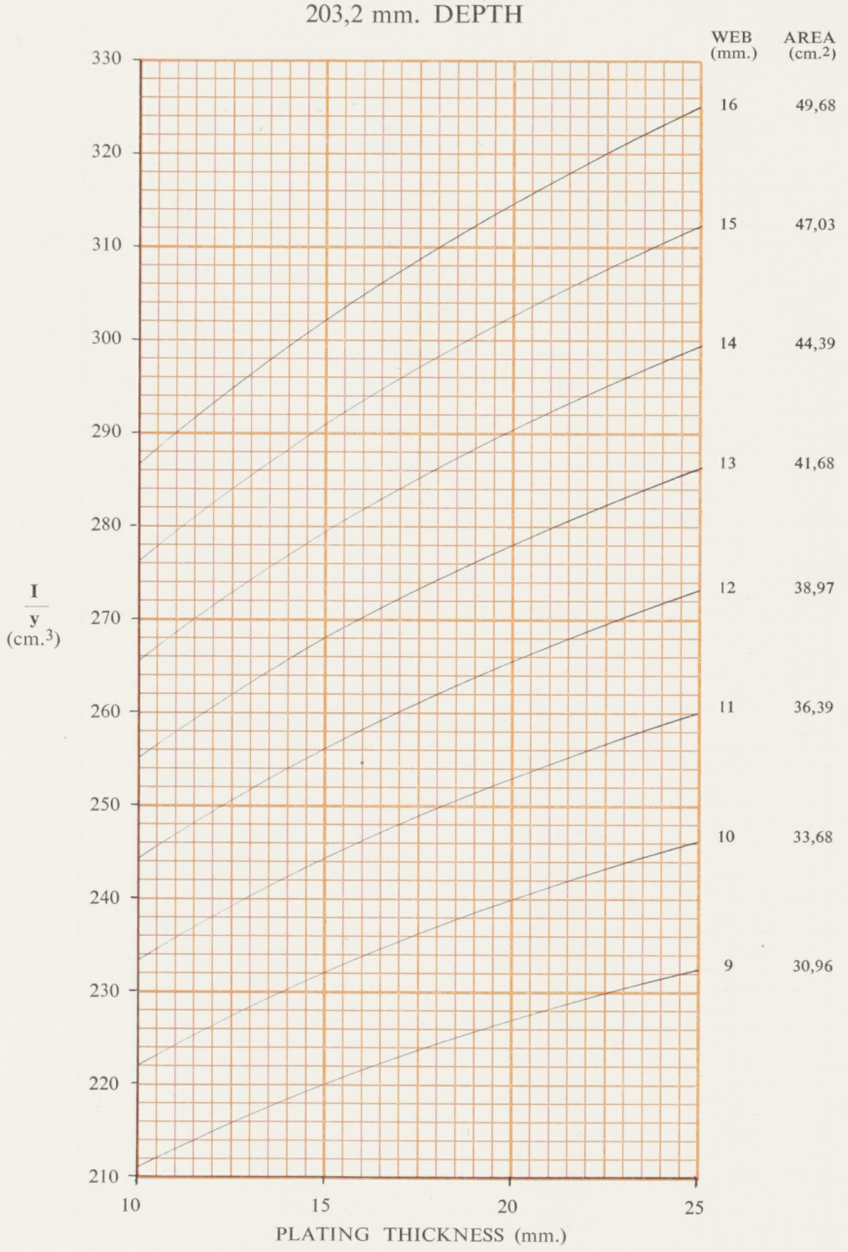
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



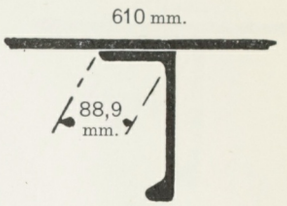
88,9 mm. FLANGE

203,2 mm. DEPTH



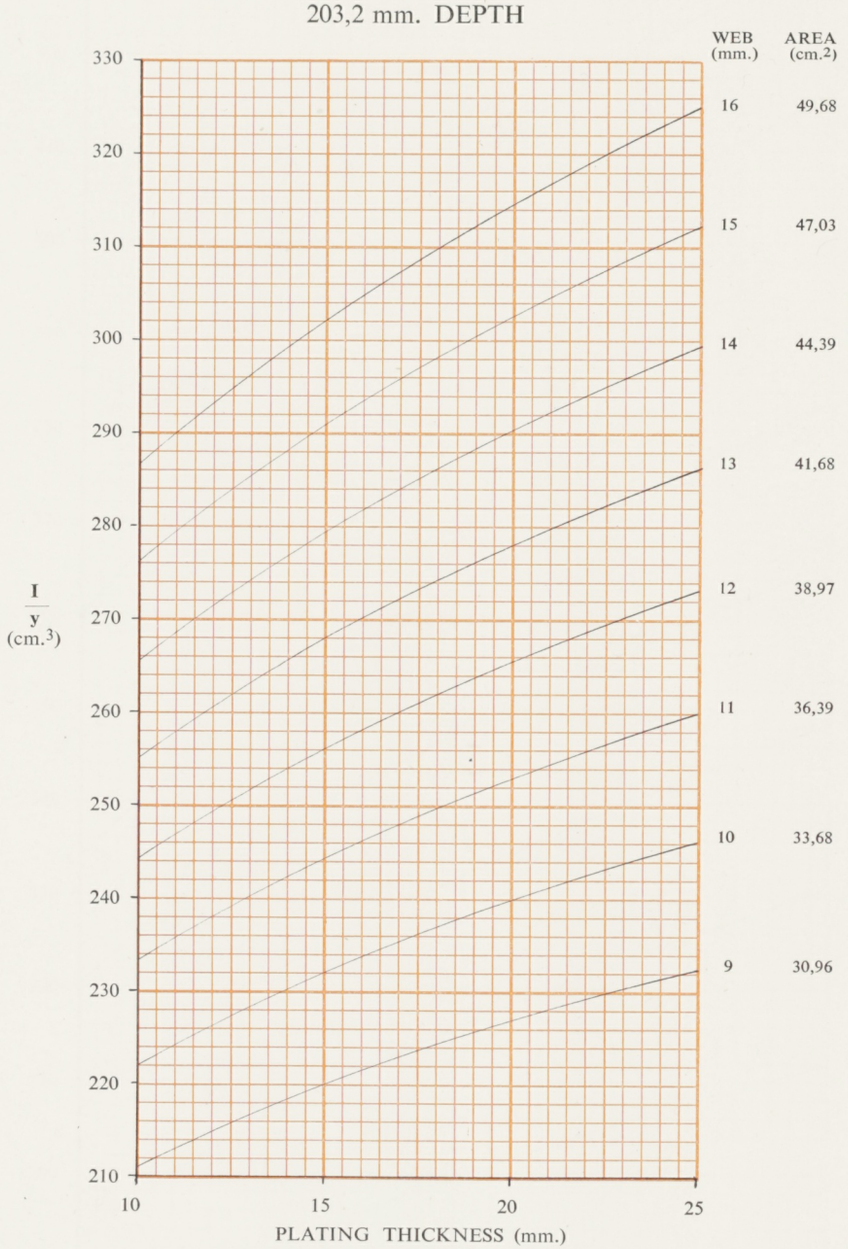
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



88,9 mm. FLANGE

203,2 mm. DEPTH

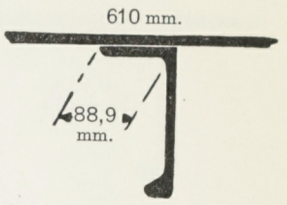


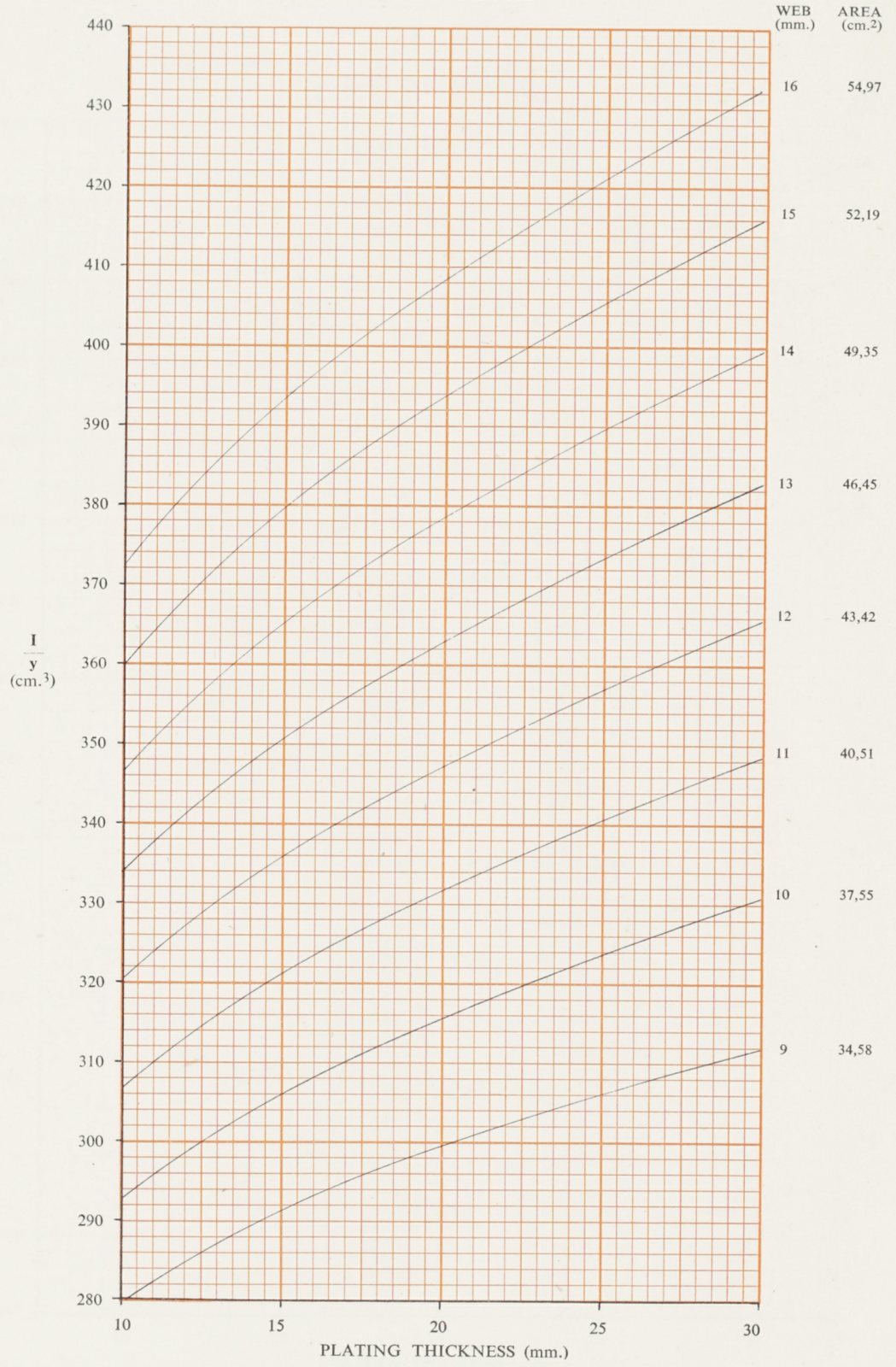
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

88,9 mm. FLANGE

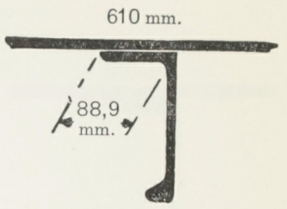
228,6 mm. DEPTH





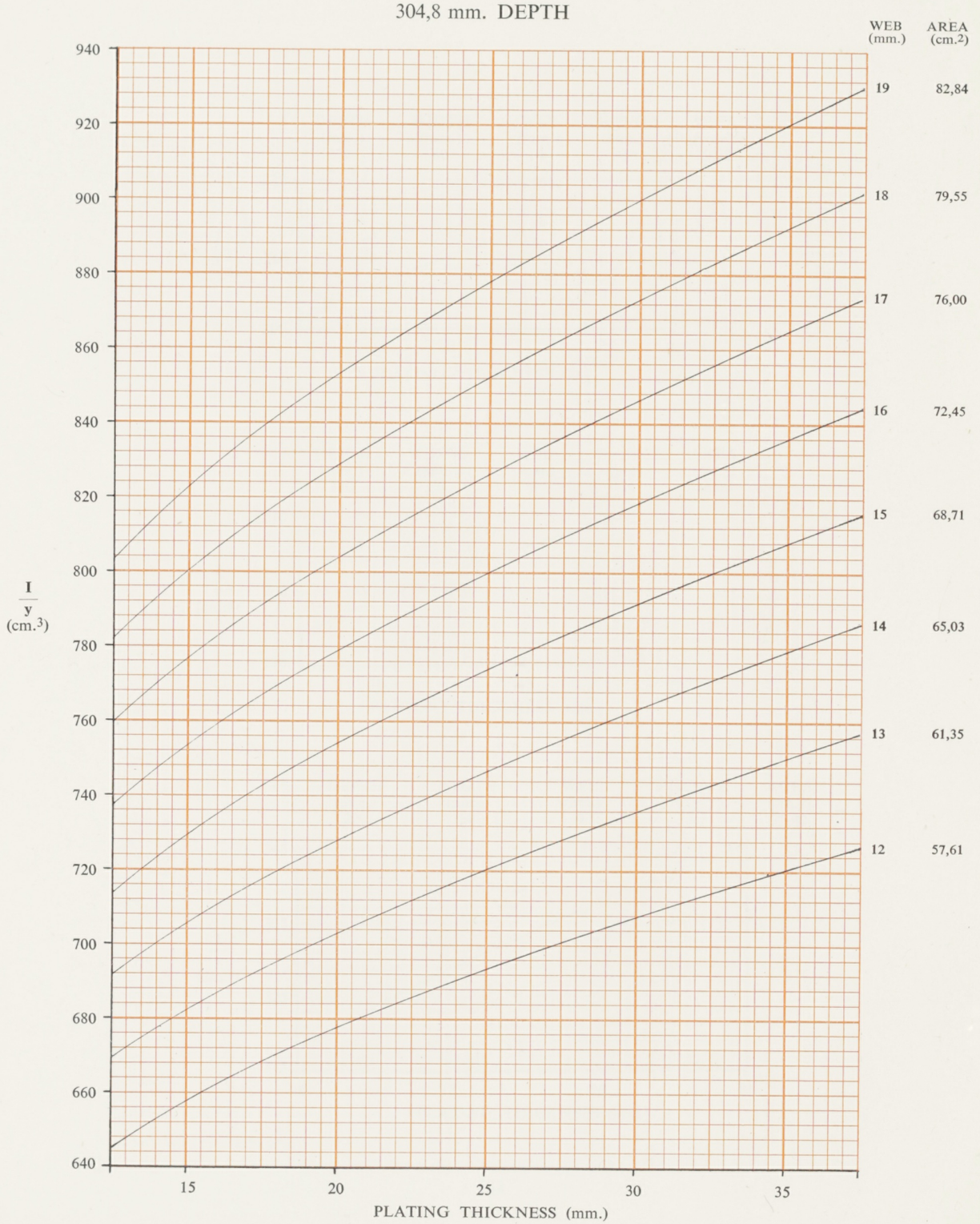
SECTION MODULUS AND AREA OF BULB ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



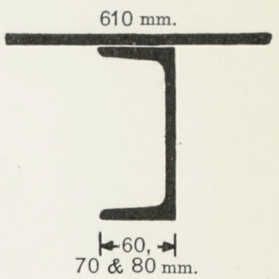
88,9 mm. FLANGE

304,8 mm. DEPTH



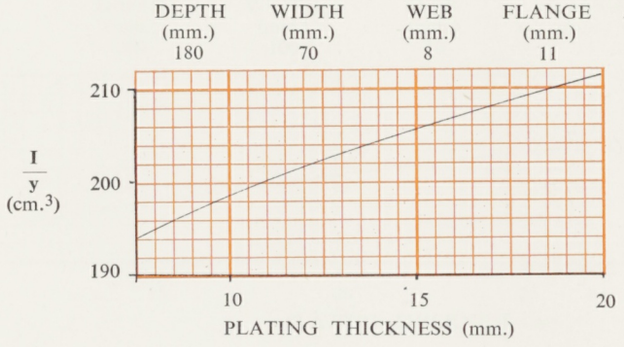
SECTION MODULUS AND AREA OF CHANNELS

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

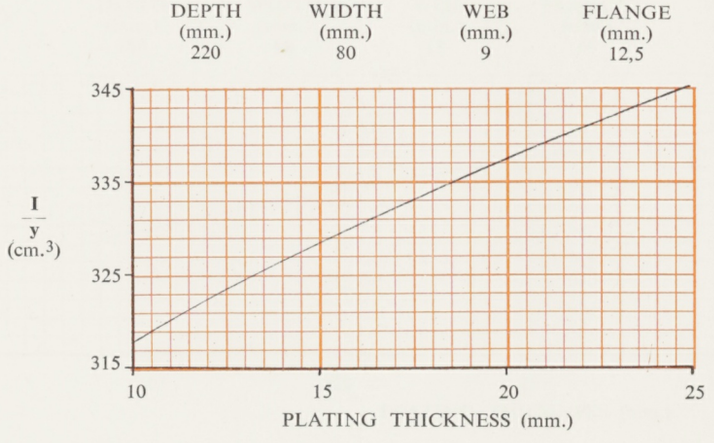


DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA ($cm.^2$)
175	60	10	10	29,80

DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA ($cm.^2$)
180	70	8	11	28,00

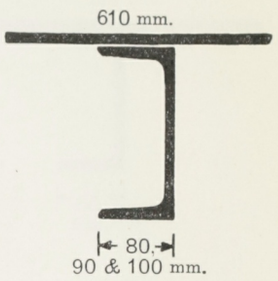


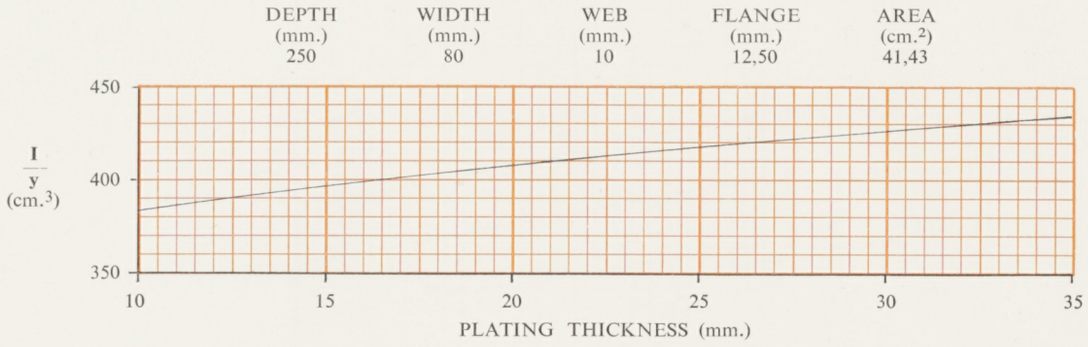
DEPTH (mm.)	WIDTH (mm.)	WEB (mm.)	FLANGE (mm.)	AREA ($cm.^2$)
220	80	9	12,5	37,40

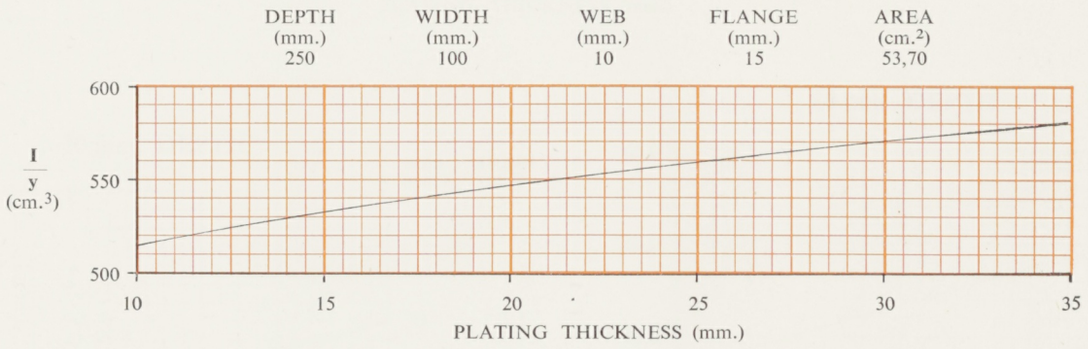


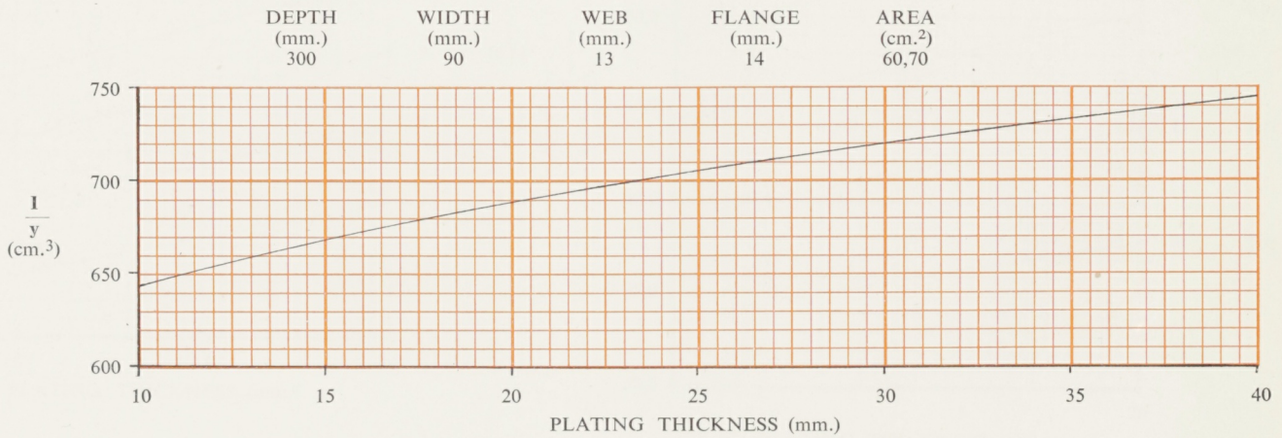
SECTION MODULUS AND AREA OF CHANNELS

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



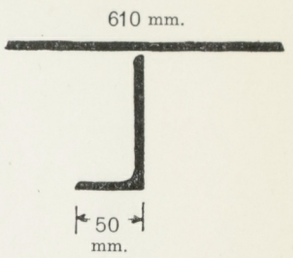






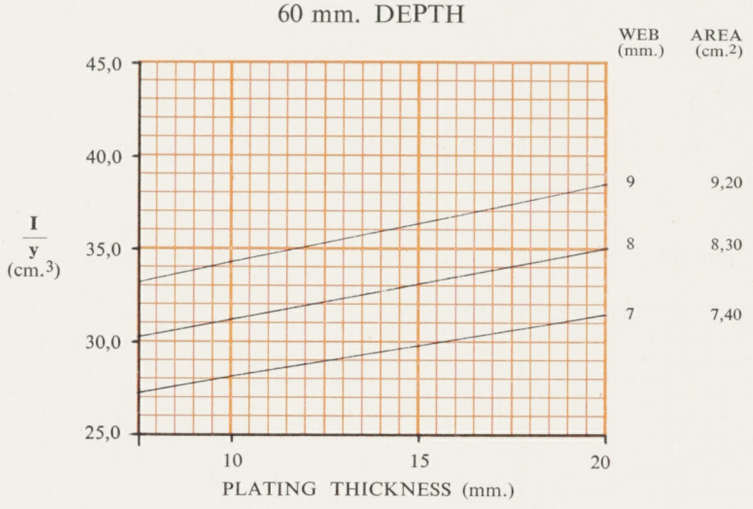
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

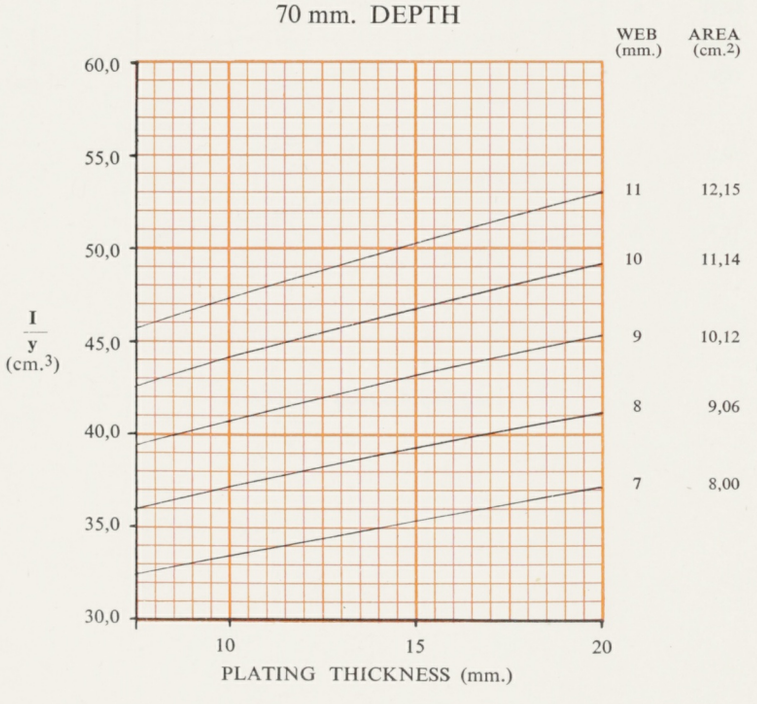


50 mm. FLANGE

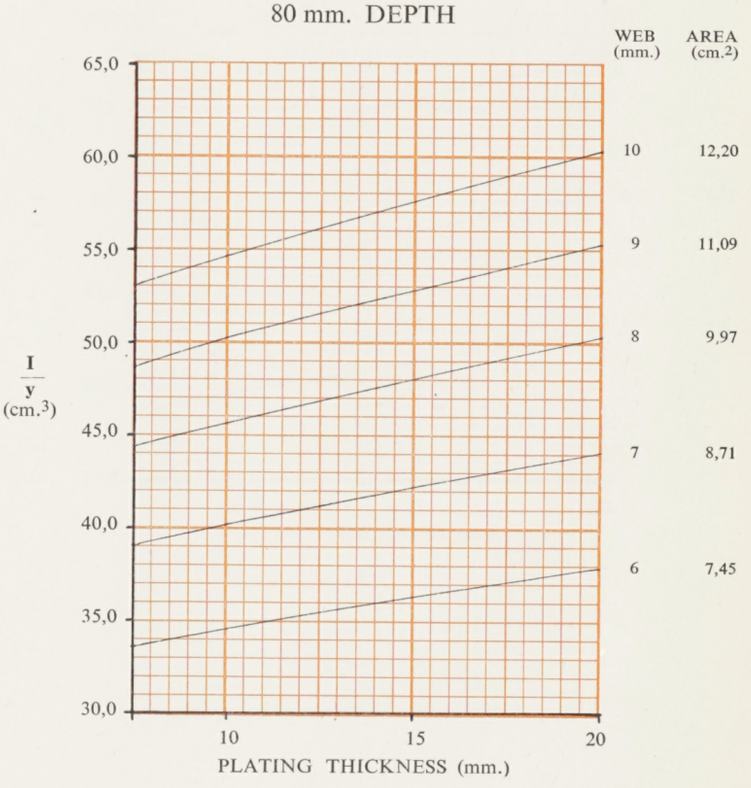
60 mm. DEPTH



70 mm. DEPTH

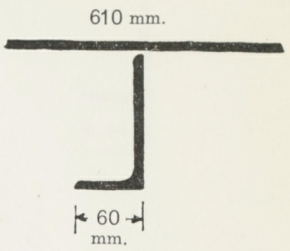


80 mm. DEPTH



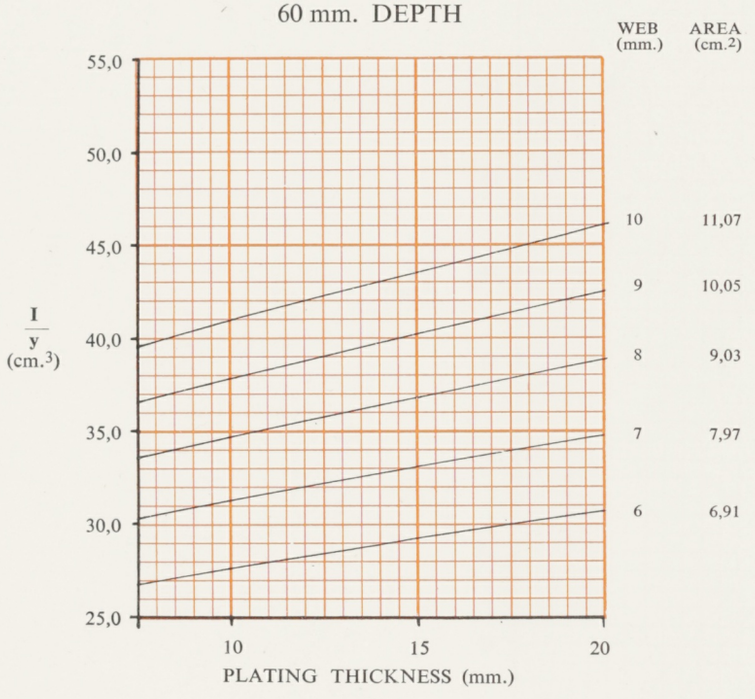
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

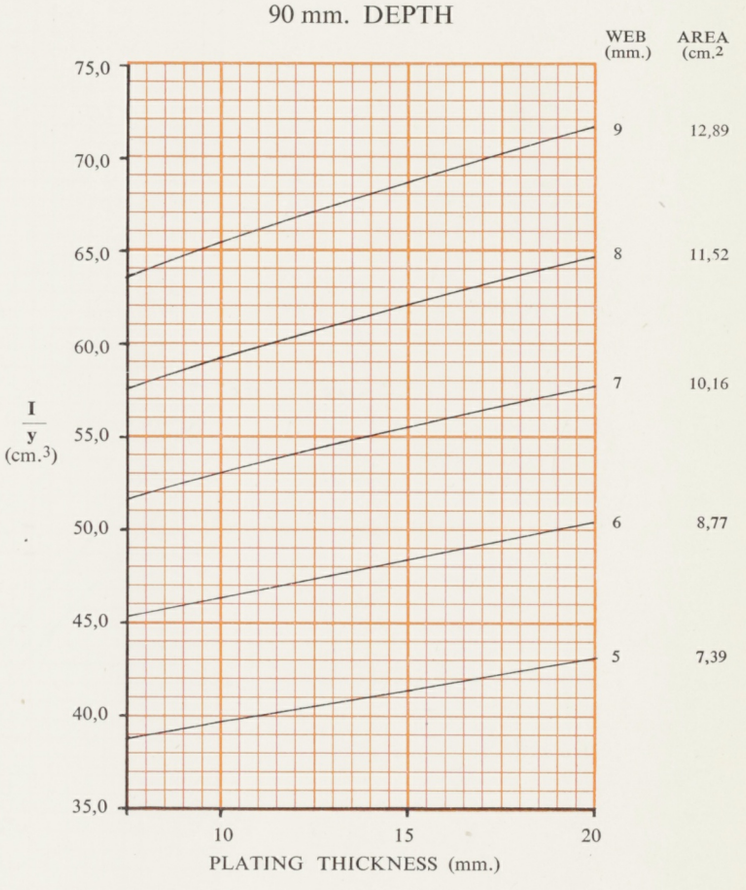


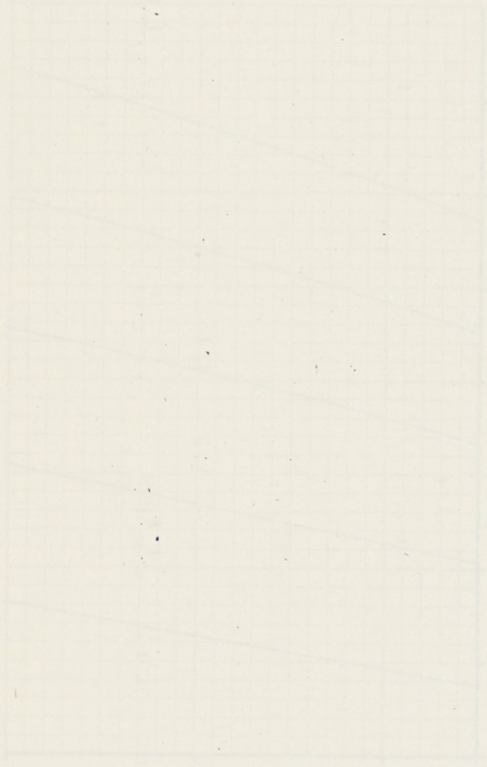
60 mm. FLANGE

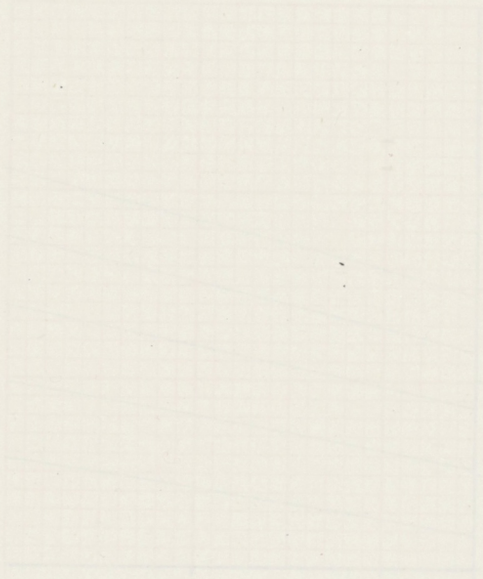
60 mm. DEPTH



90 mm. DEPTH



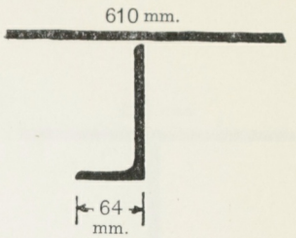




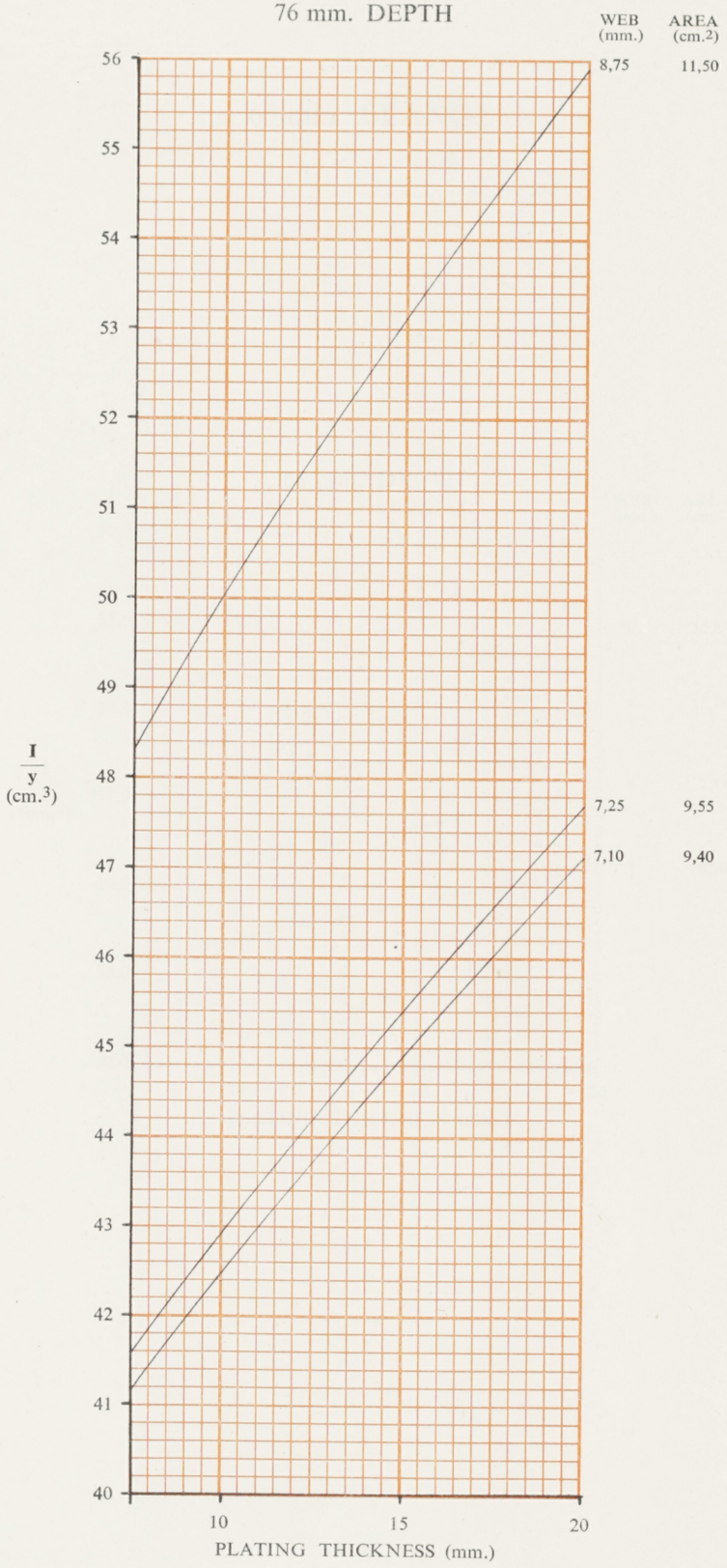
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

64 mm. FLANGE

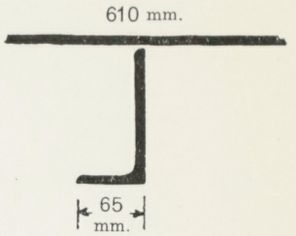


76 mm. DEPTH

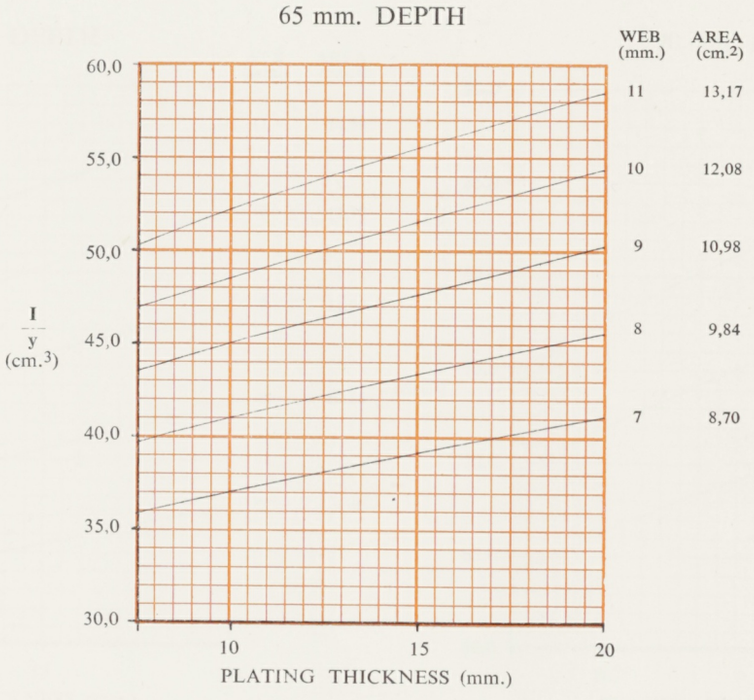


SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

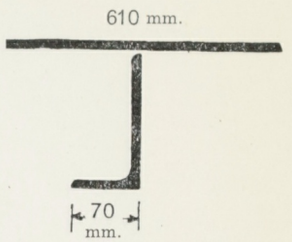


65 mm. FLANGE



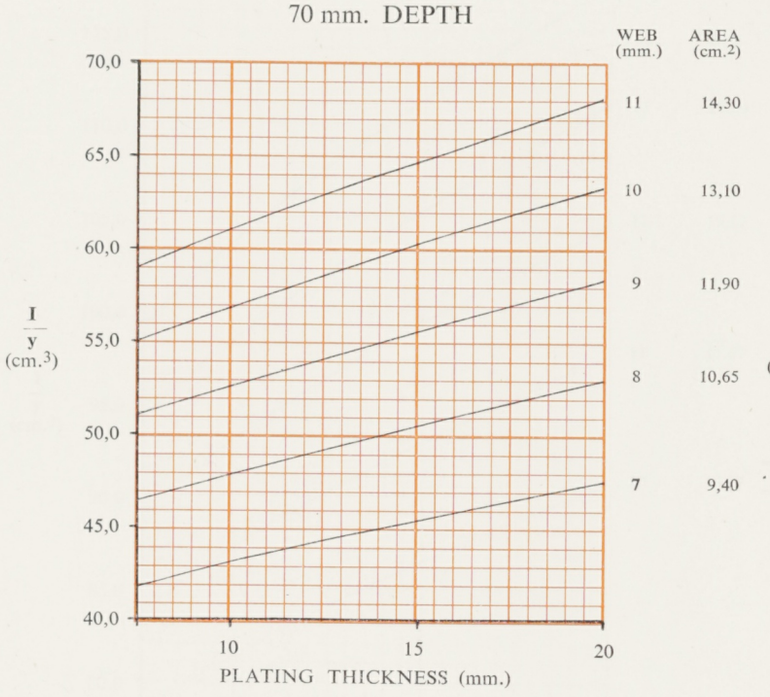
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

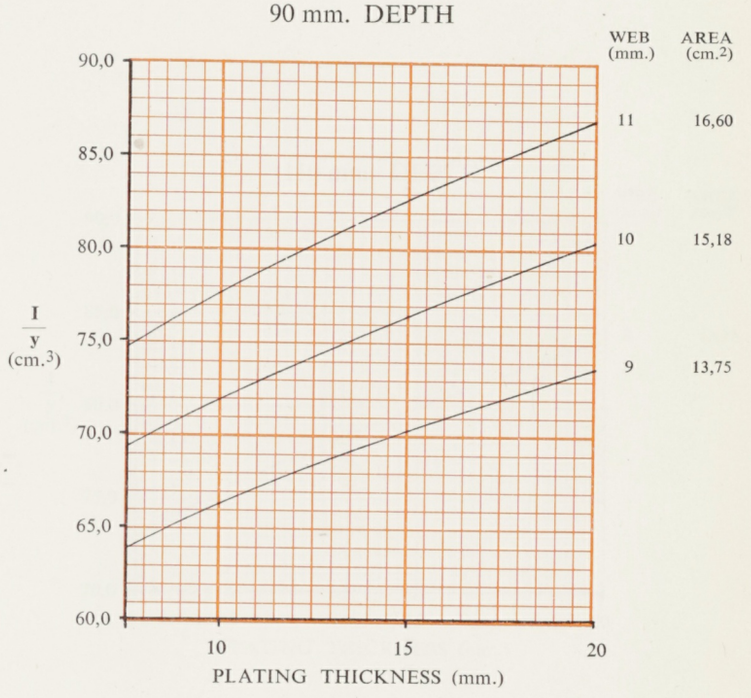


70 mm. FLANGE

70 mm. DEPTH

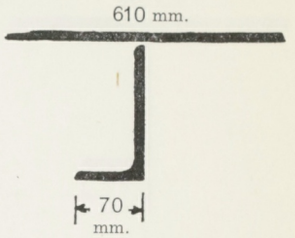


90 mm. DEPTH



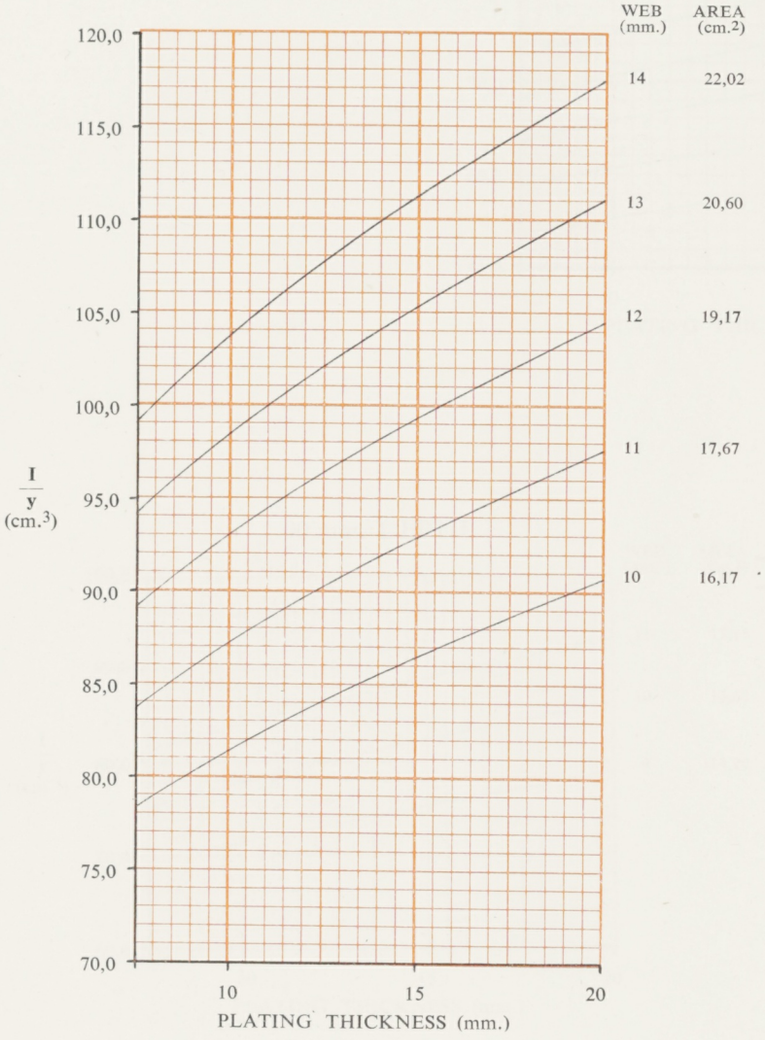
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

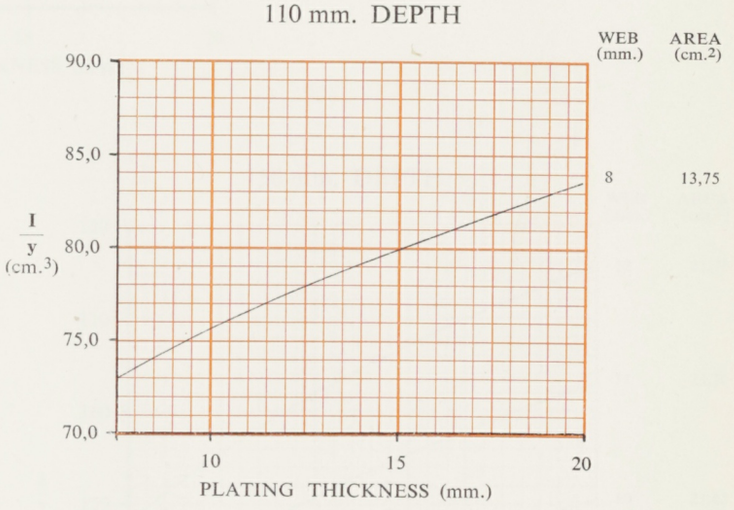


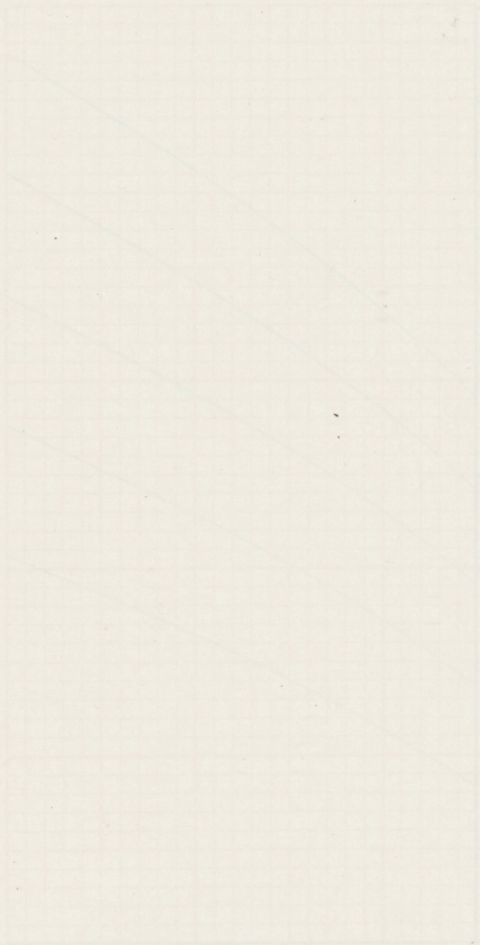
70 mm. FLANGE

100 mm. DEPTH



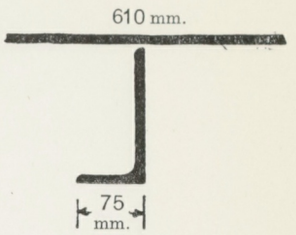
110 mm. DEPTH





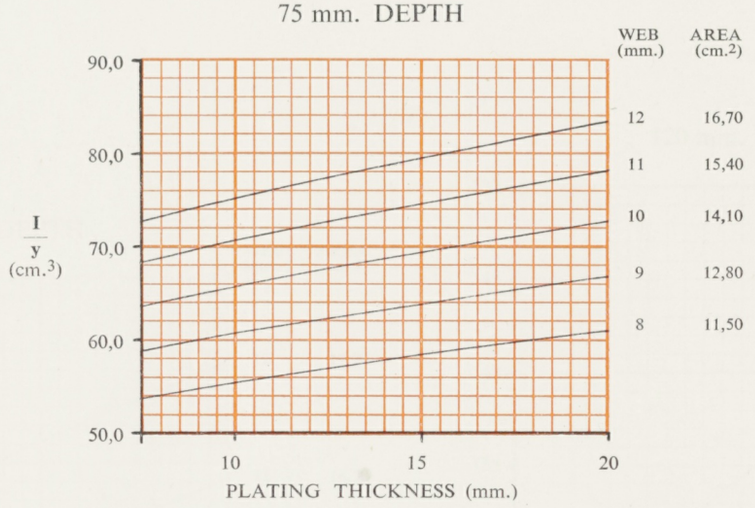
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

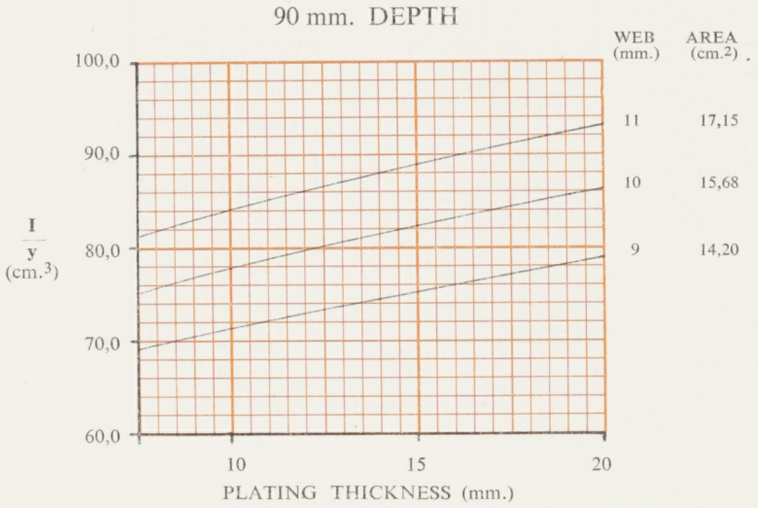


75 mm. FLANGE

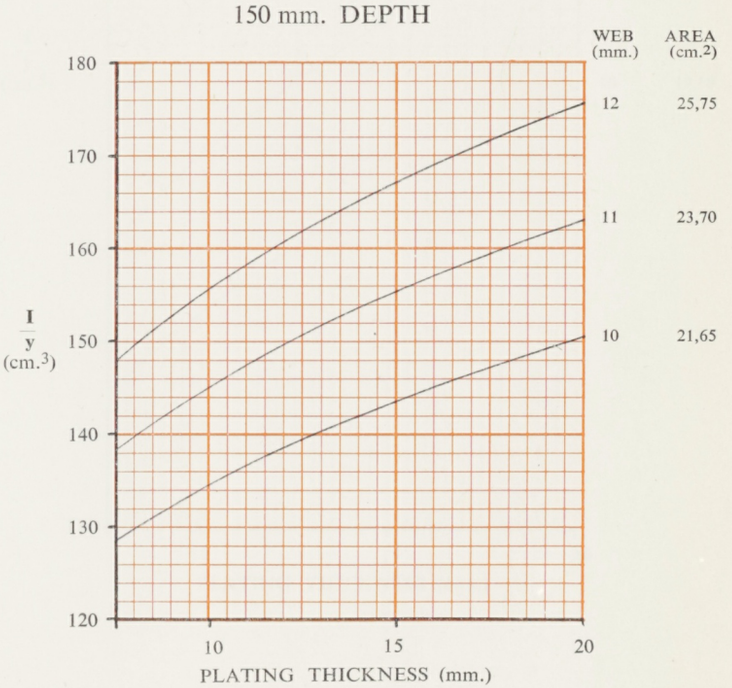
75 mm. DEPTH

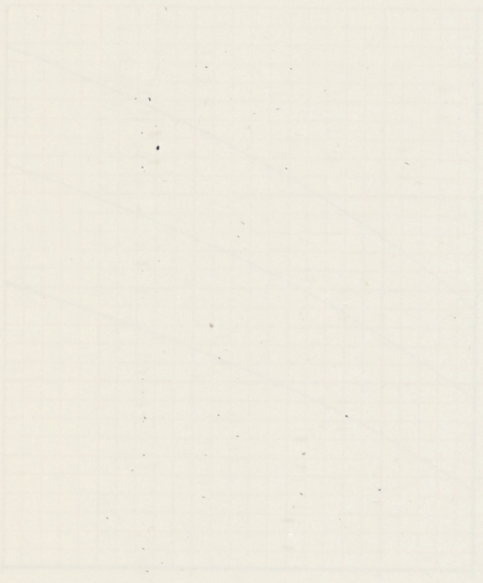


90 mm. DEPTH



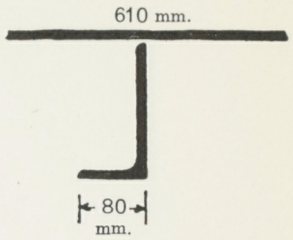
150 mm. DEPTH





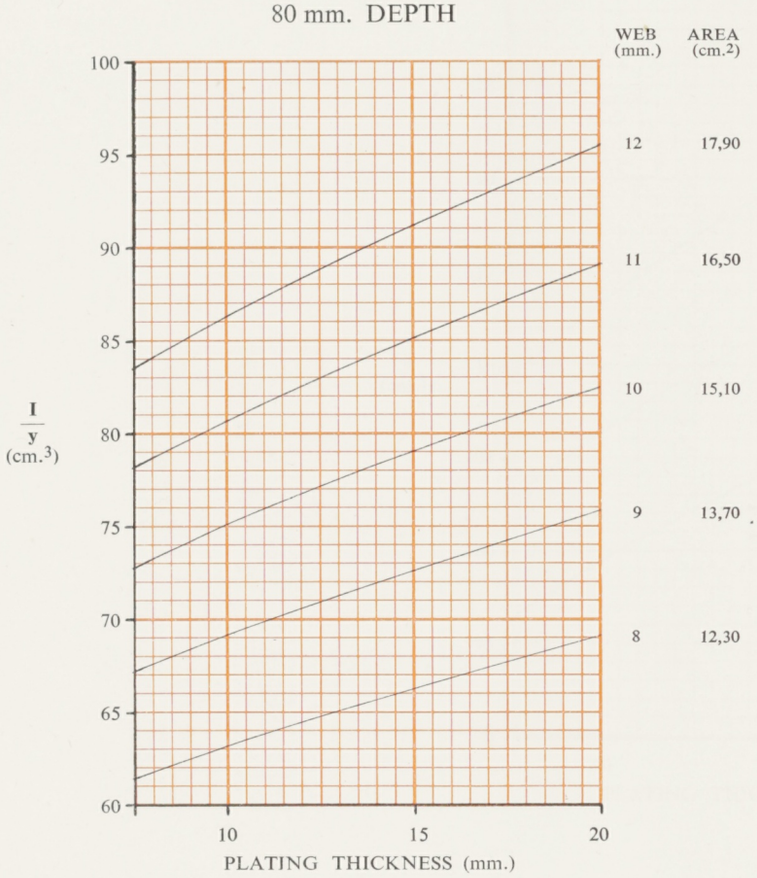
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

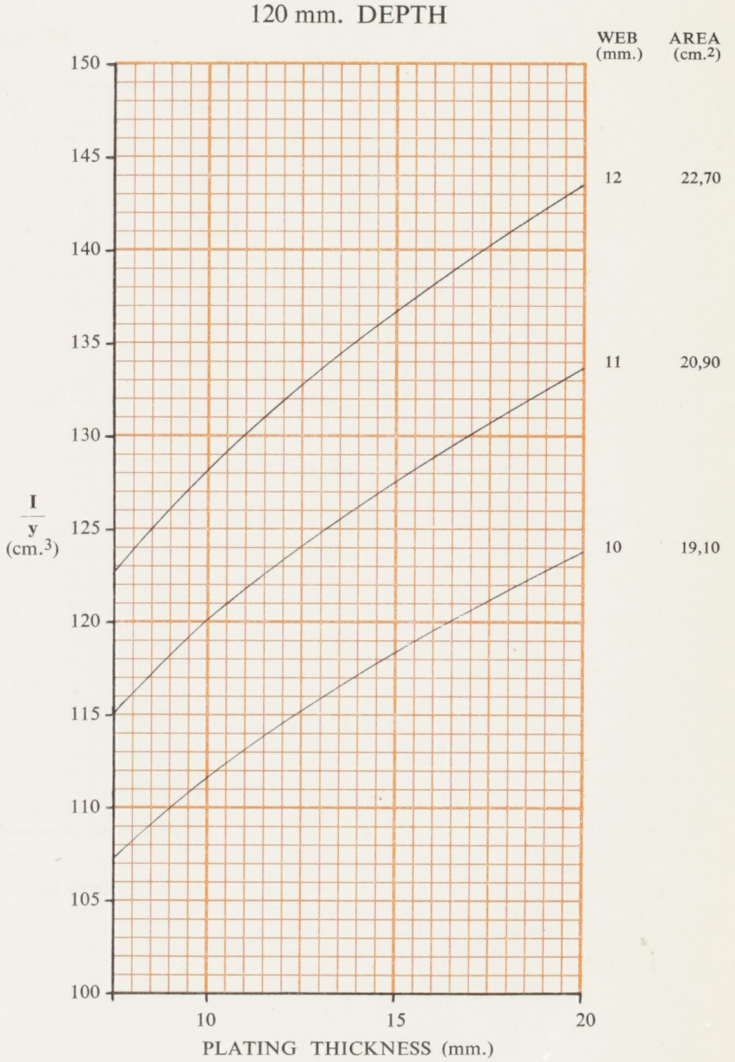


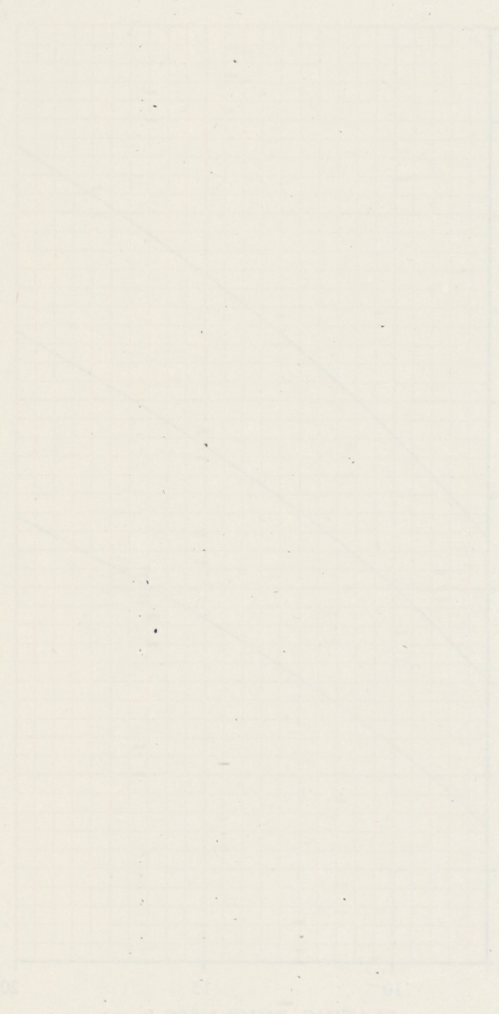
80 mm. FLANGE

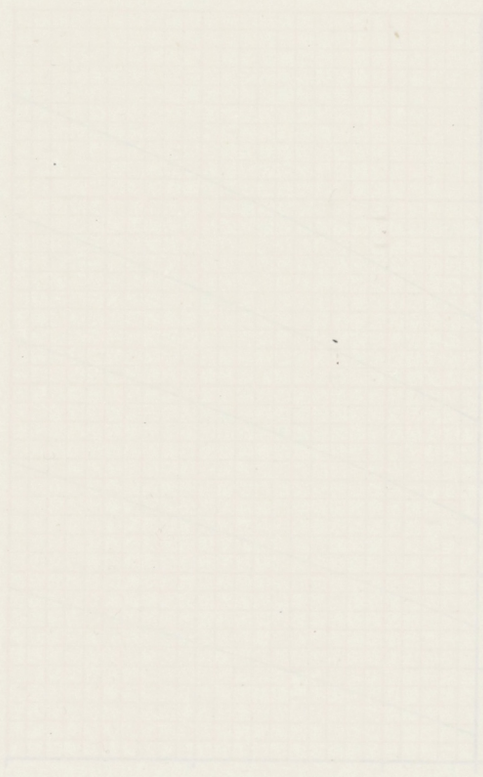
80 mm. DEPTH



120 mm. DEPTH

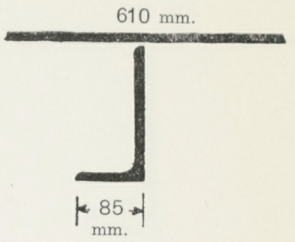






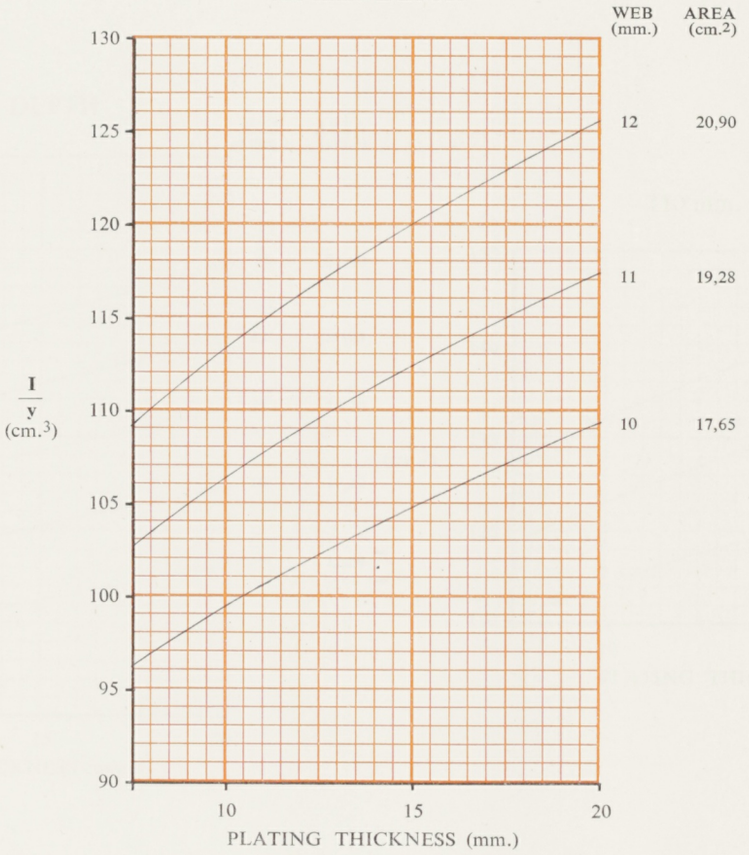
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



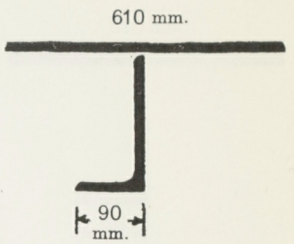
85 mm. FLANGE

100 mm. DEPTH



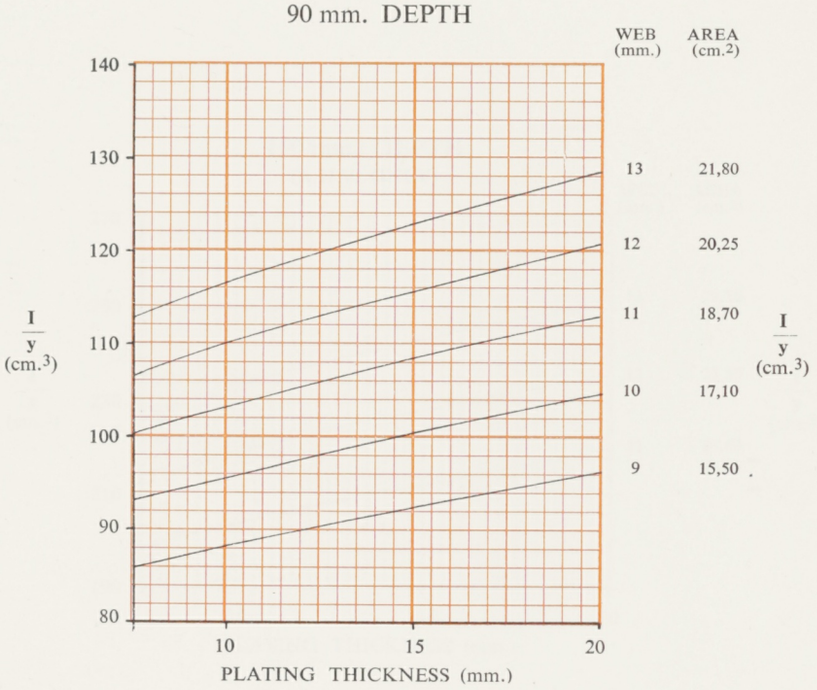
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

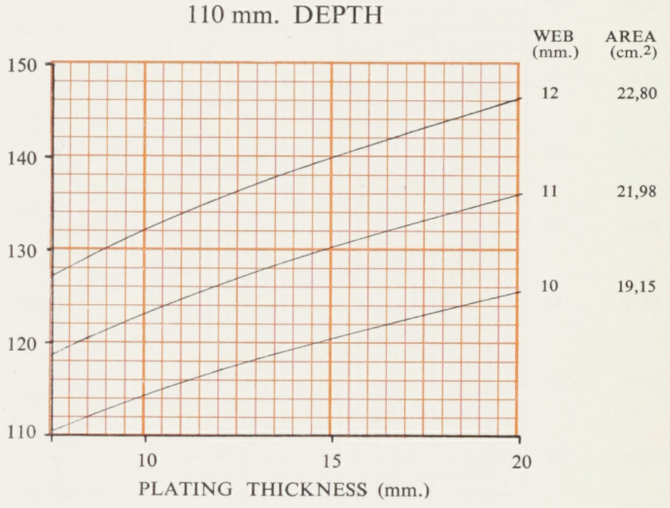


90 mm. FLANGE

90 mm. DEPTH

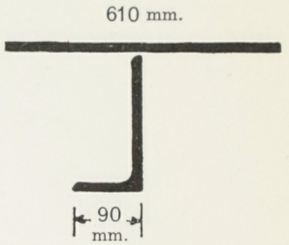


110 mm. DEPTH



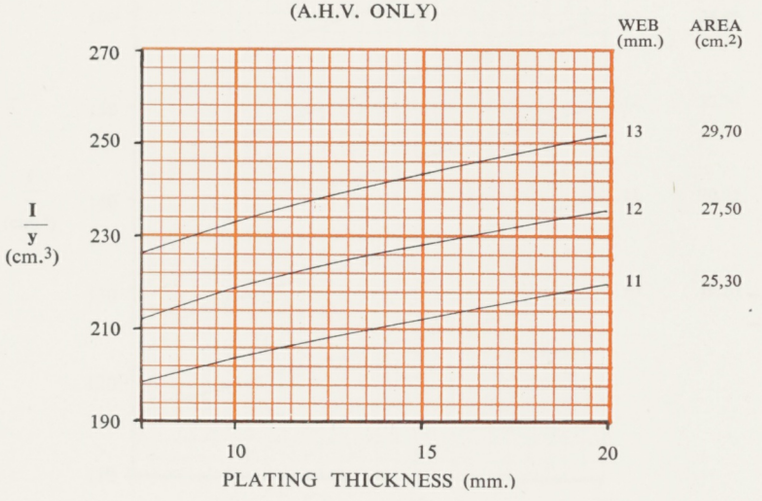
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

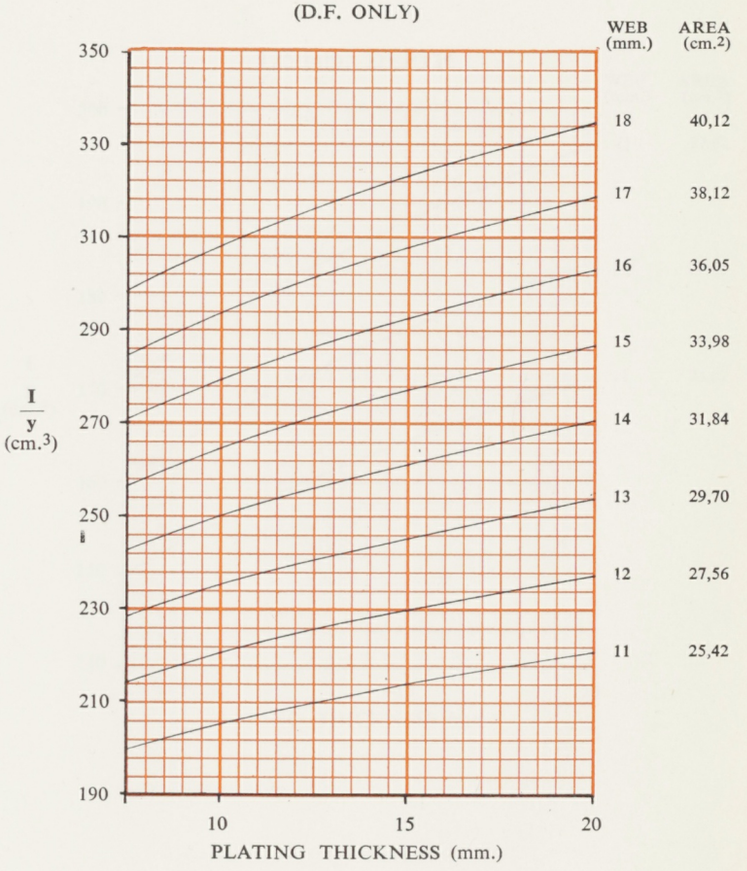


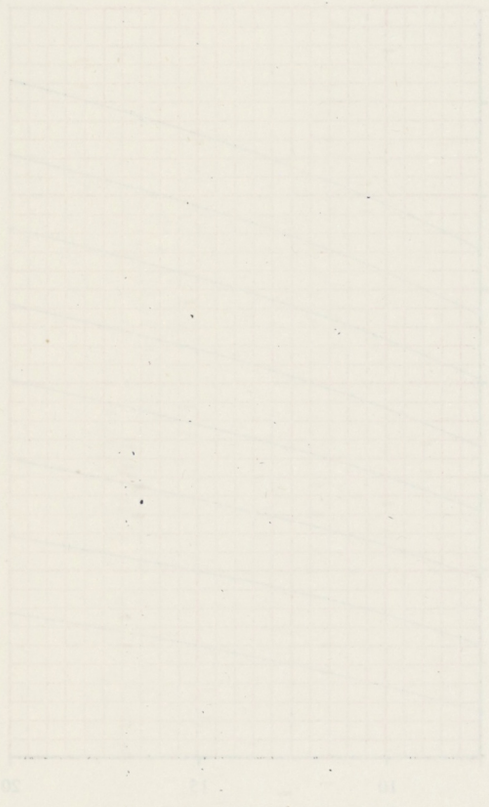
90 mm. FLANGE

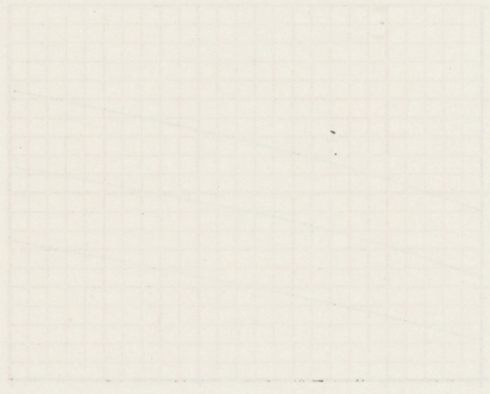
150 mm. DEPTH
(A.H.V. ONLY)



150 mm. DEPTH
(D.F. ONLY)

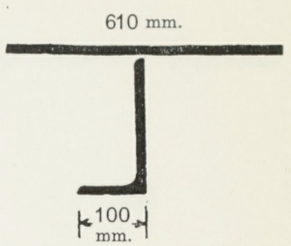






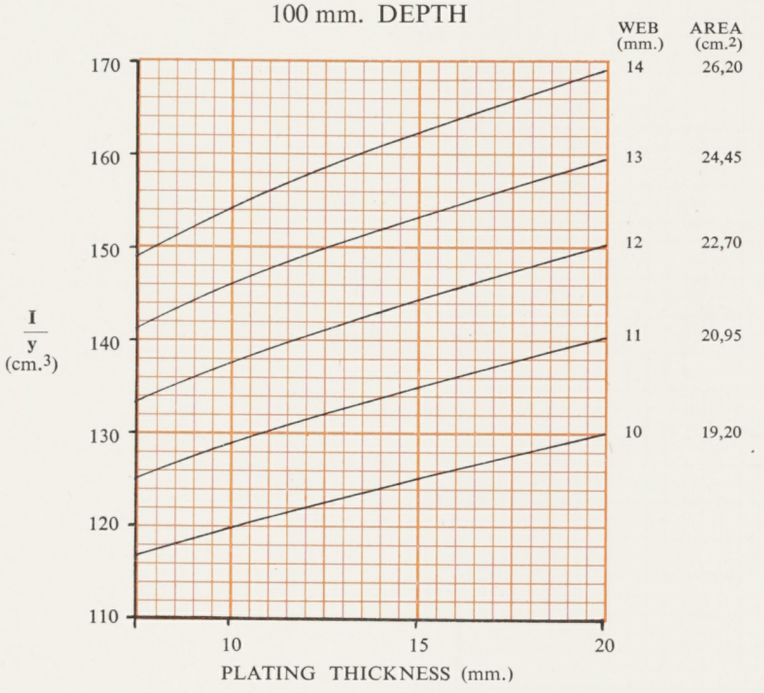
SECTION MODULUS AND AREA OF INVERTED ANGLES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

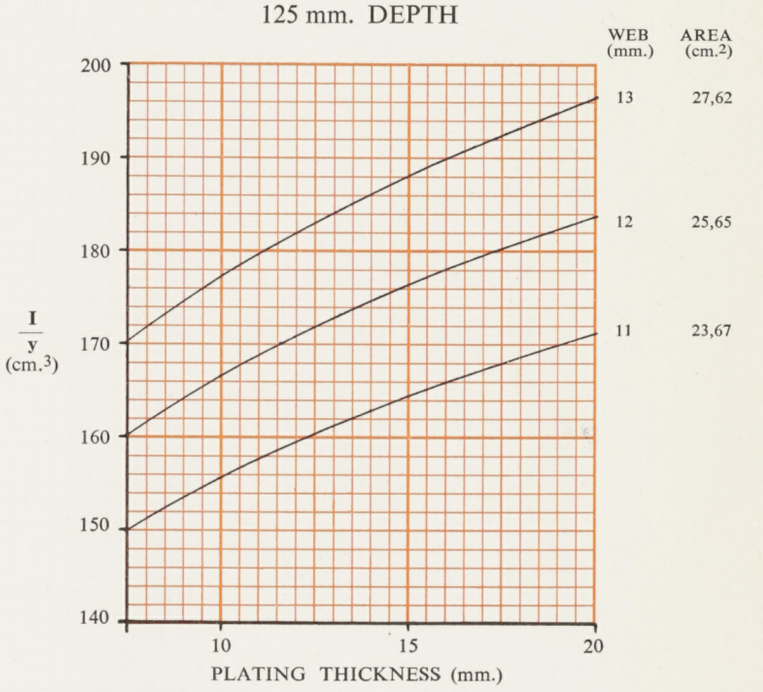


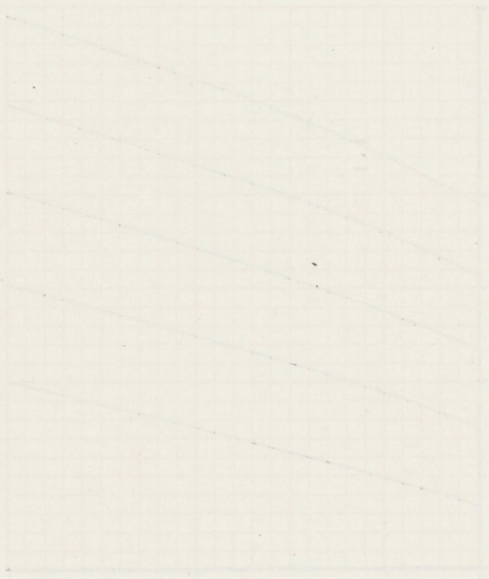
100 mm. FLANGE

100 mm. DEPTH



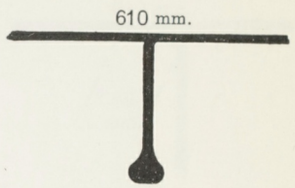
125 mm. DEPTH



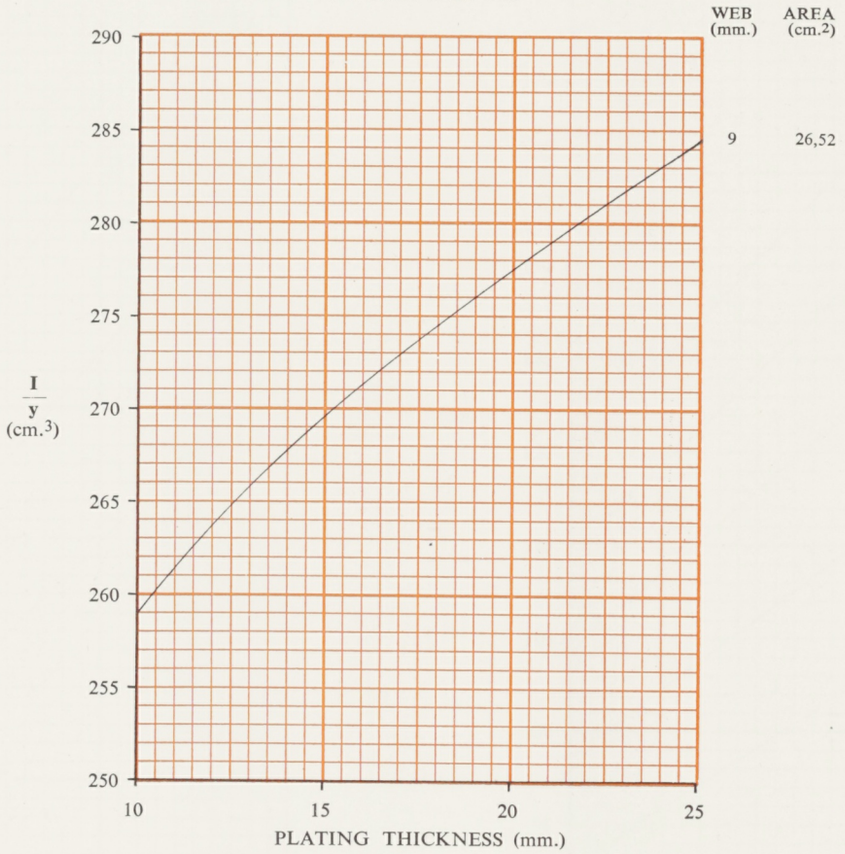


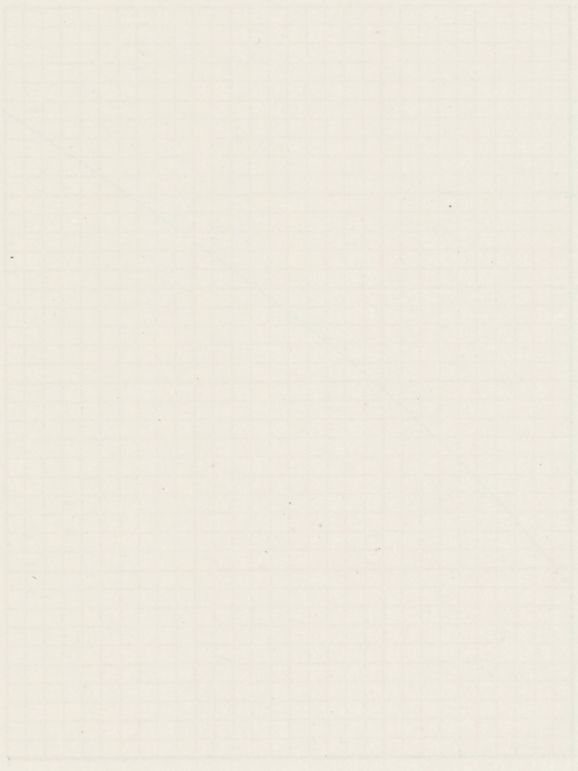
SECTION MODULUS AND AREA OF DOUBLE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



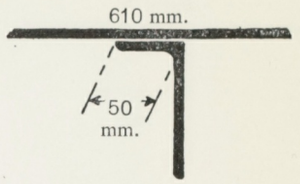
229 mm. DEPTH





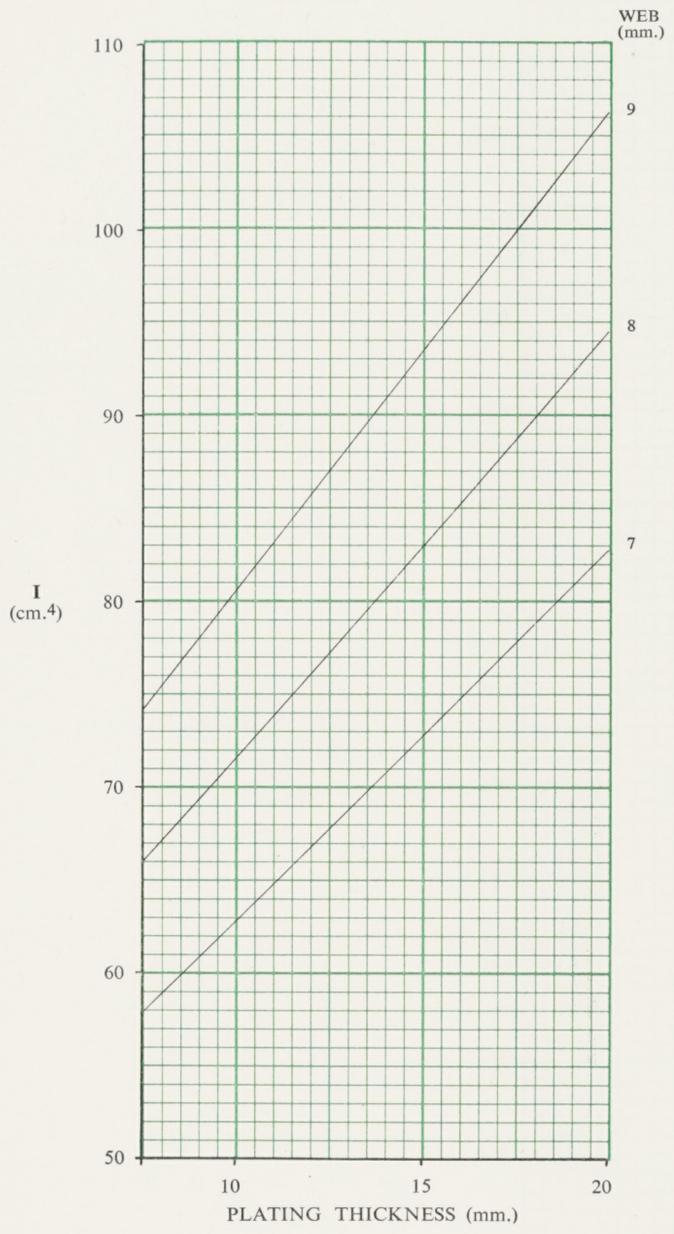
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)

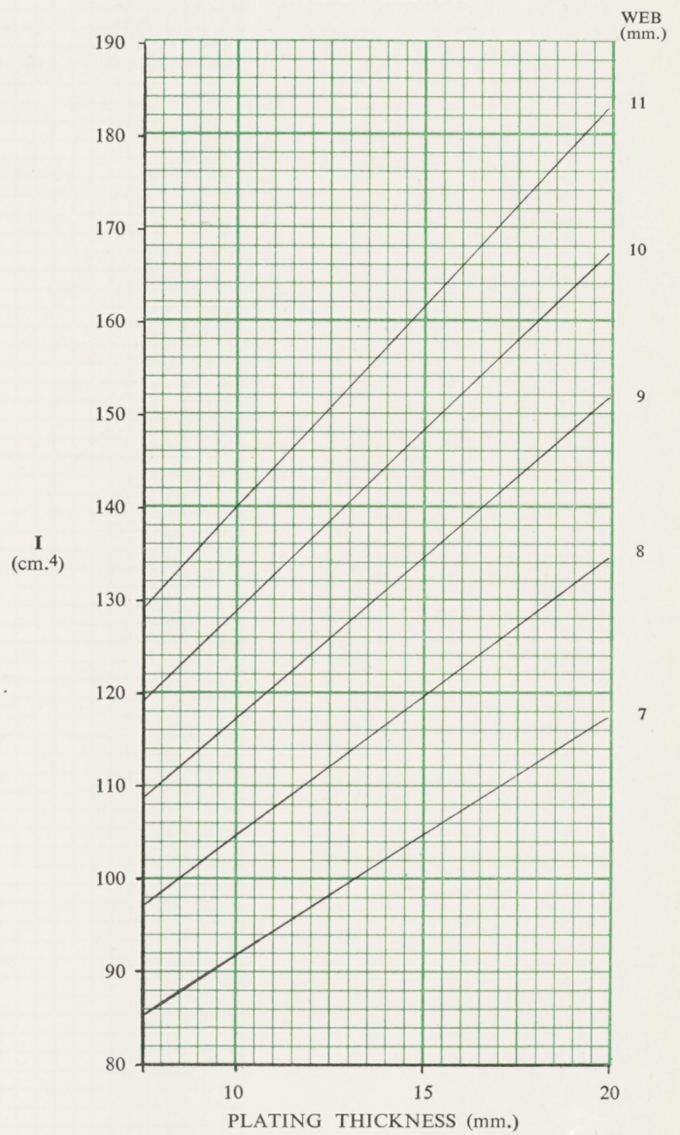


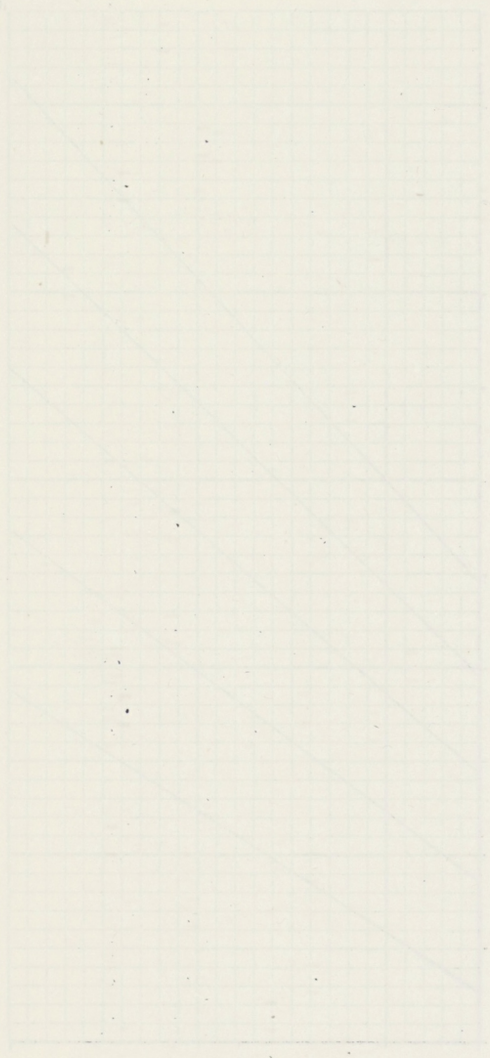
50 mm. FLANGE

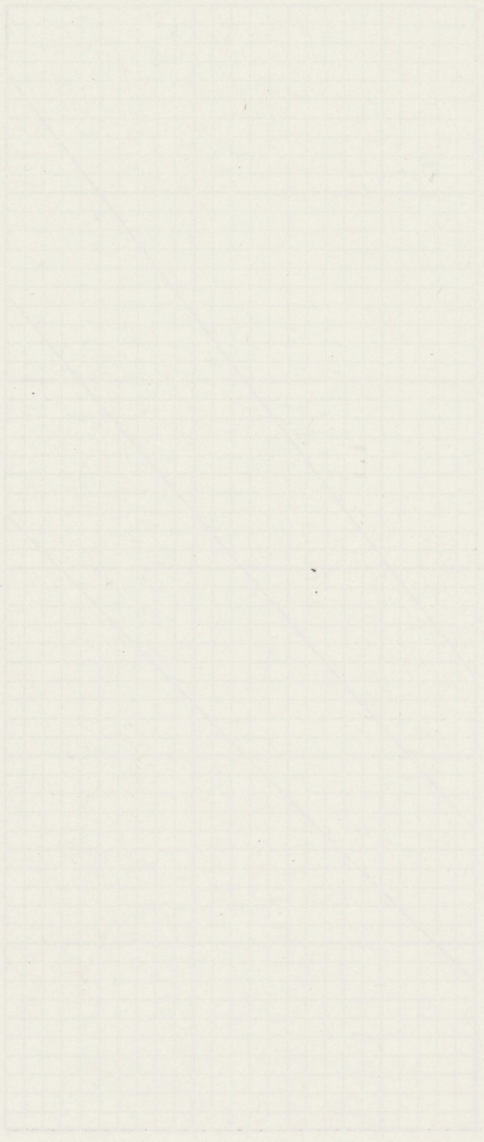
60 mm. DEPTH



70 mm. DEPTH

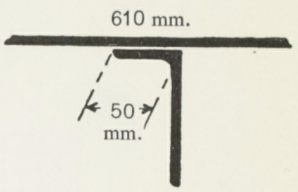






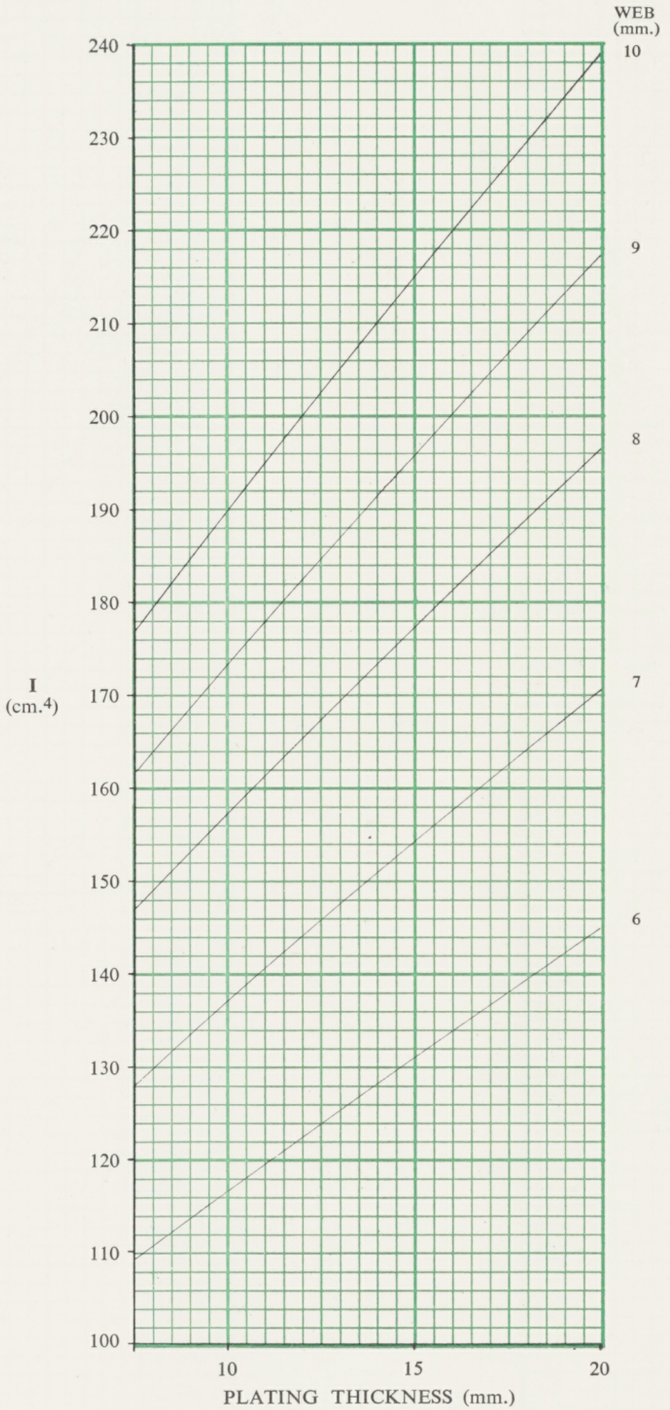
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)



50 mm. FLANGE

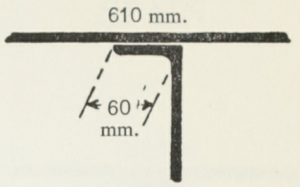
80 mm. DEPTH



SPAIN

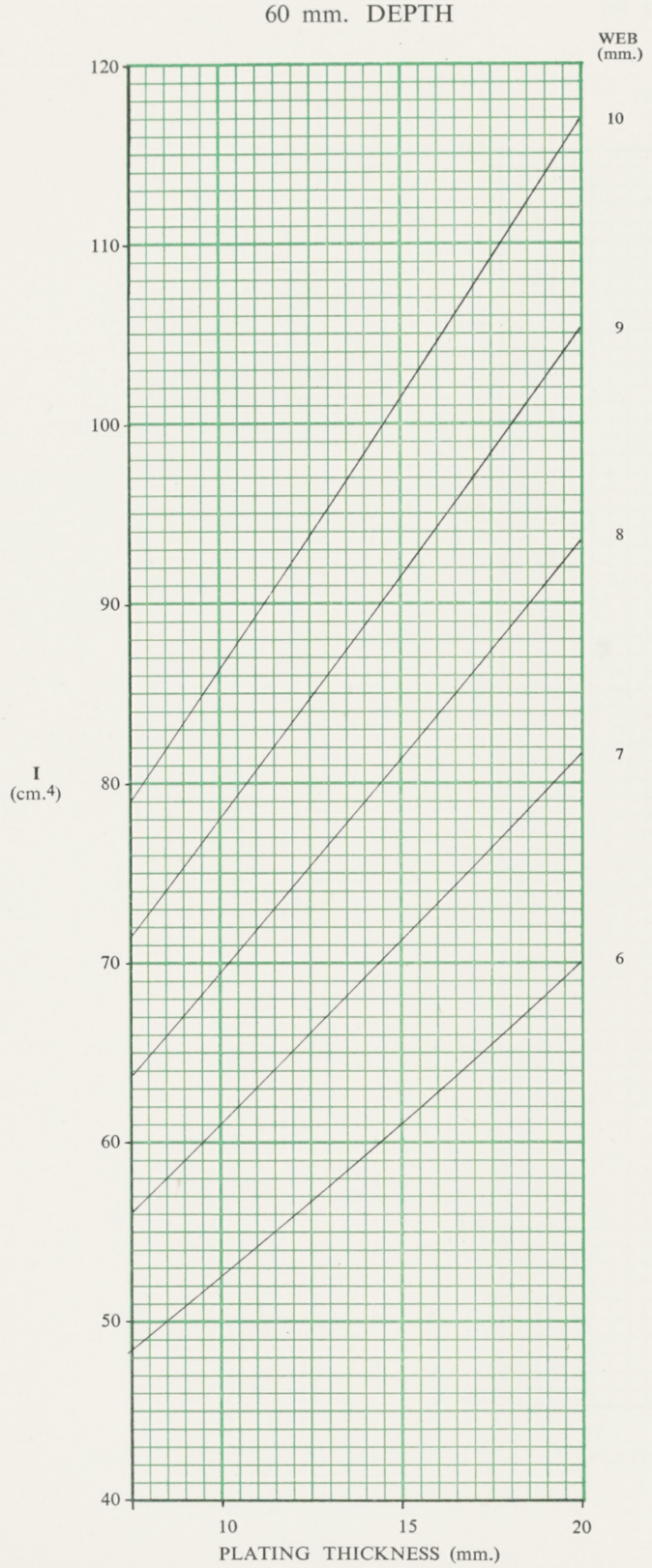
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)

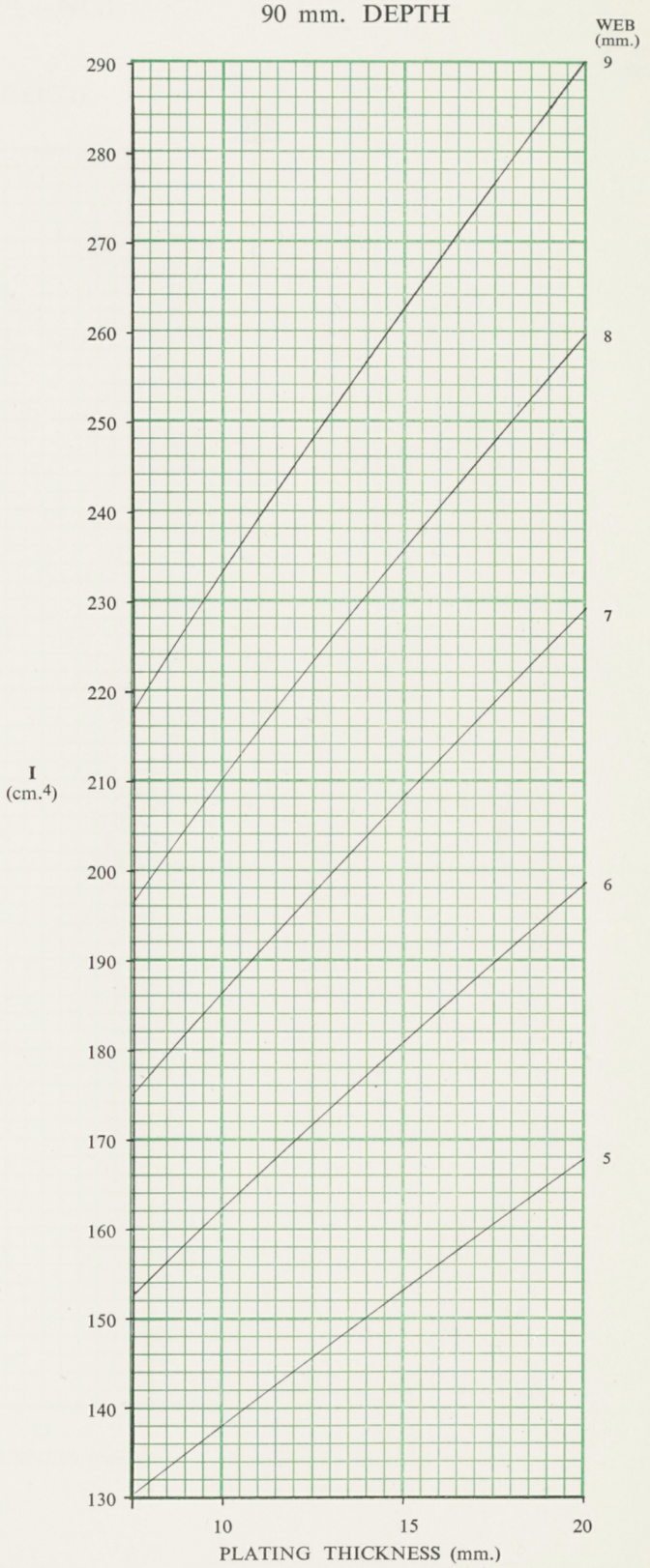


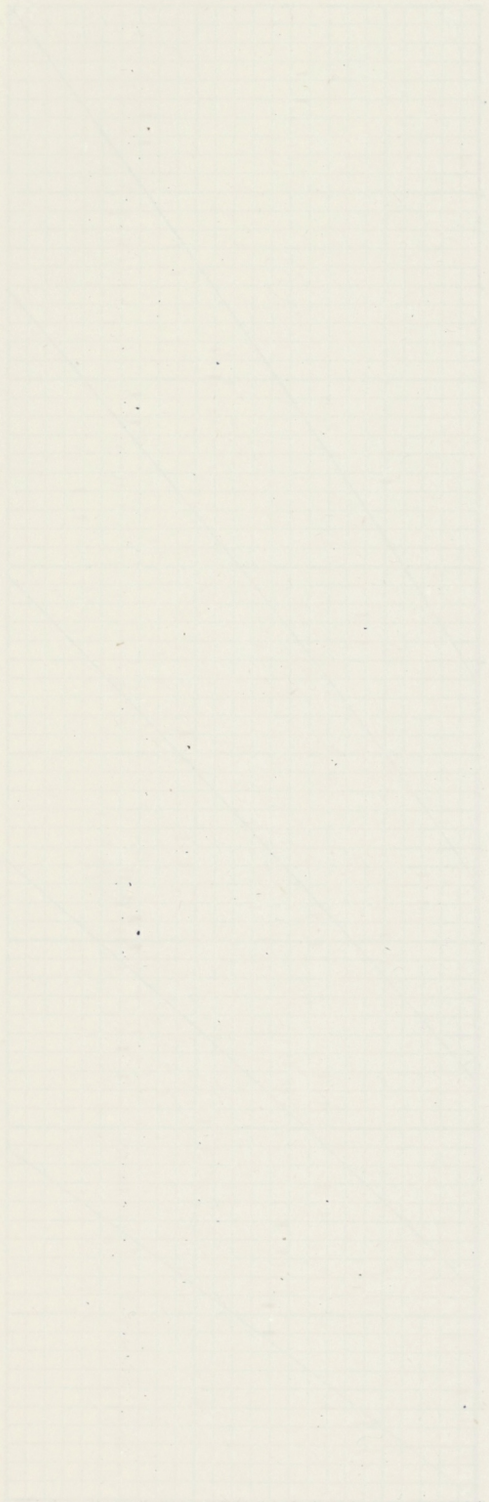
60 mm. FLANGE

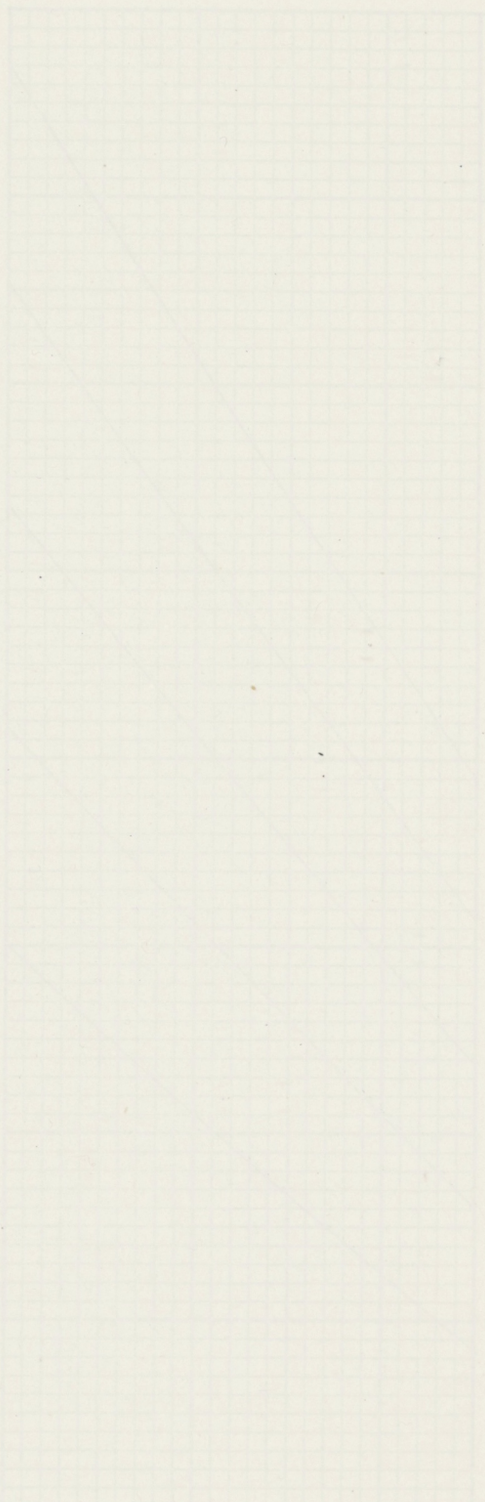
60 mm. DEPTH



90 mm. DEPTH

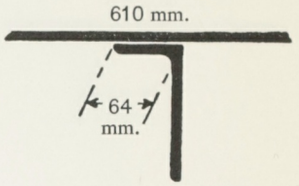






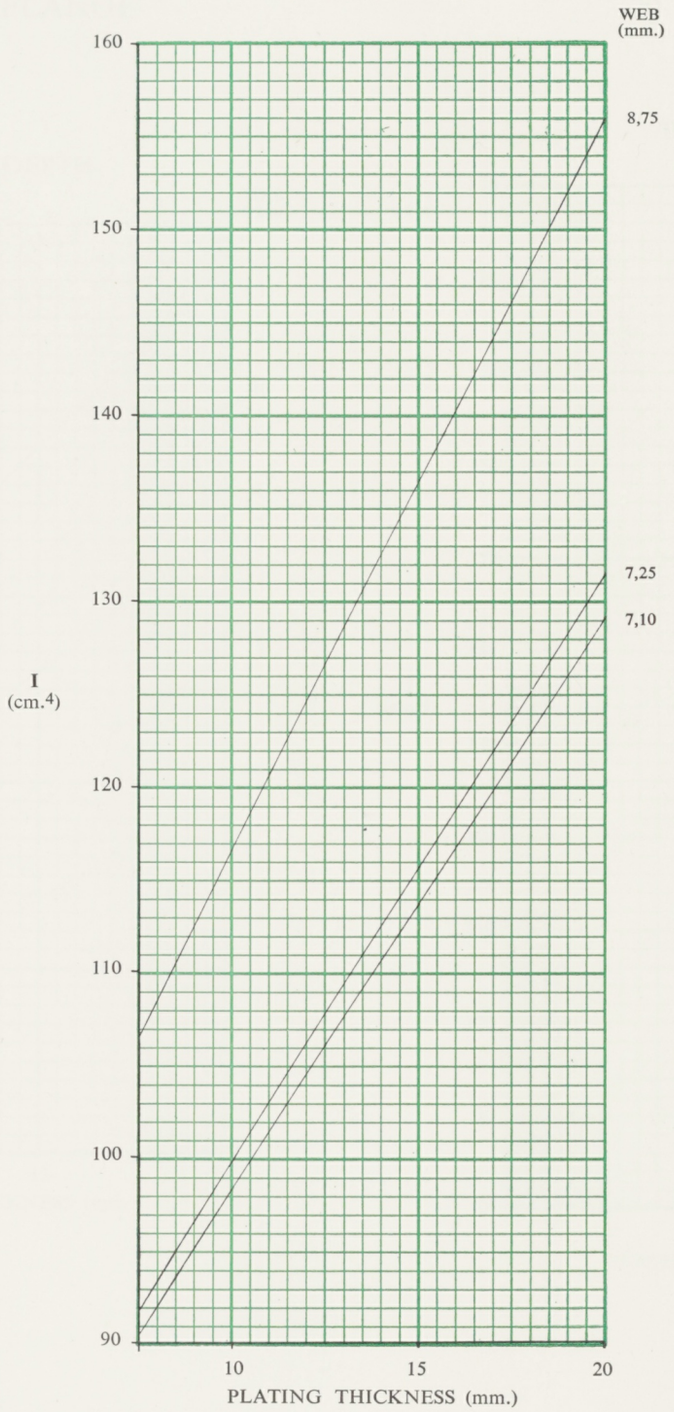
MOMENT OF INERTIA OF ORDINARY ANGLES

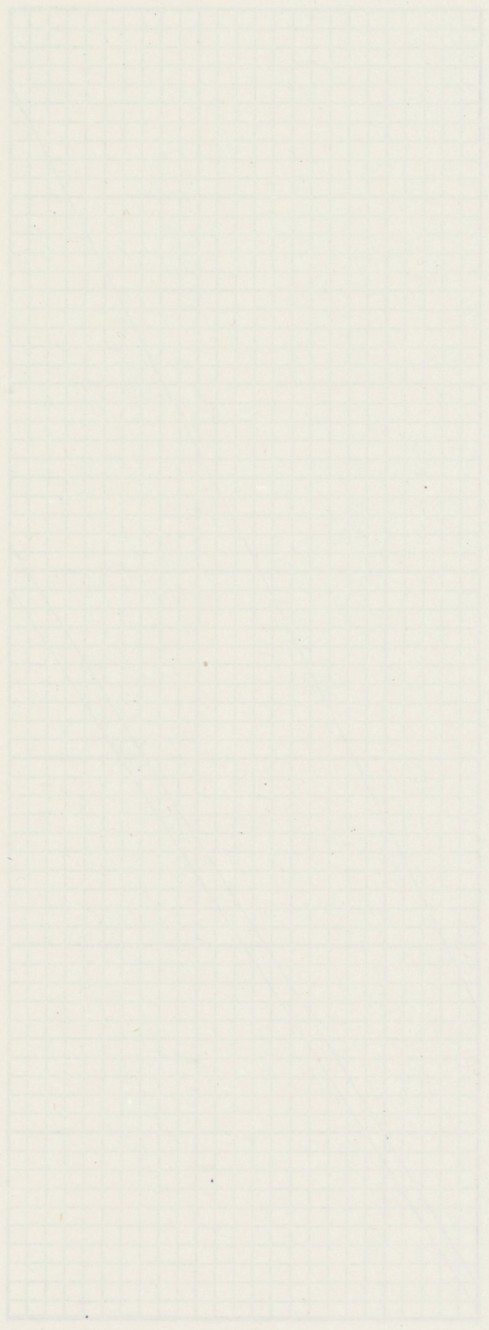
(WITH PLATING)



64 mm. FLANGE

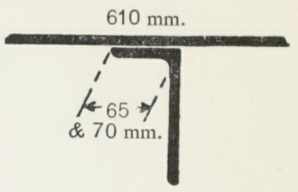
76 mm. DEPTH





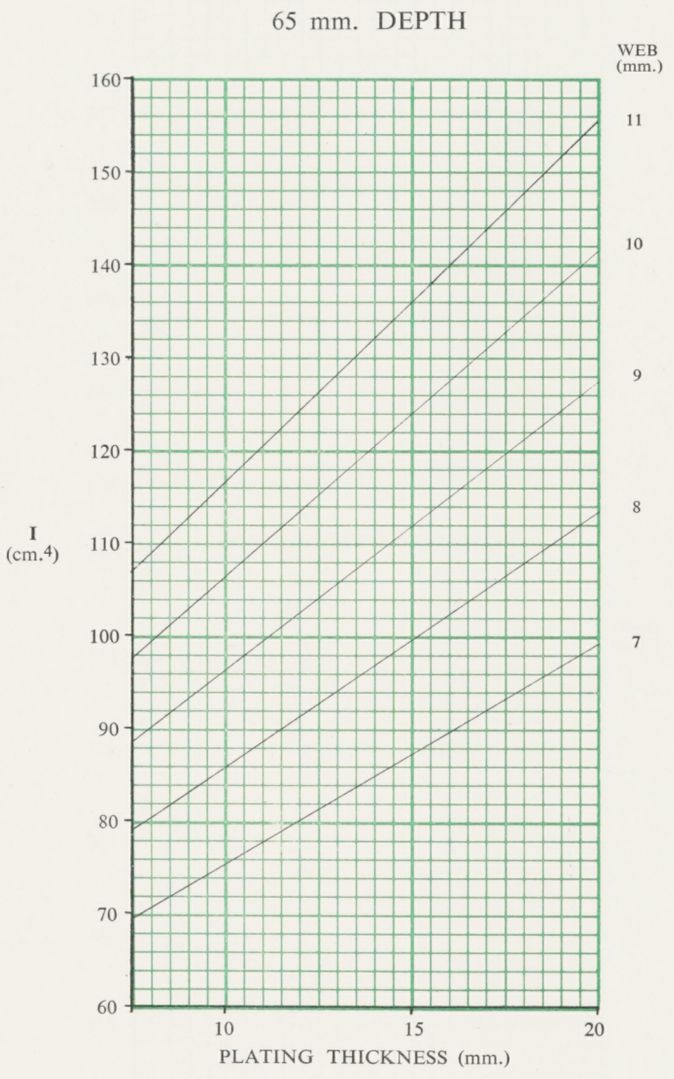
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)



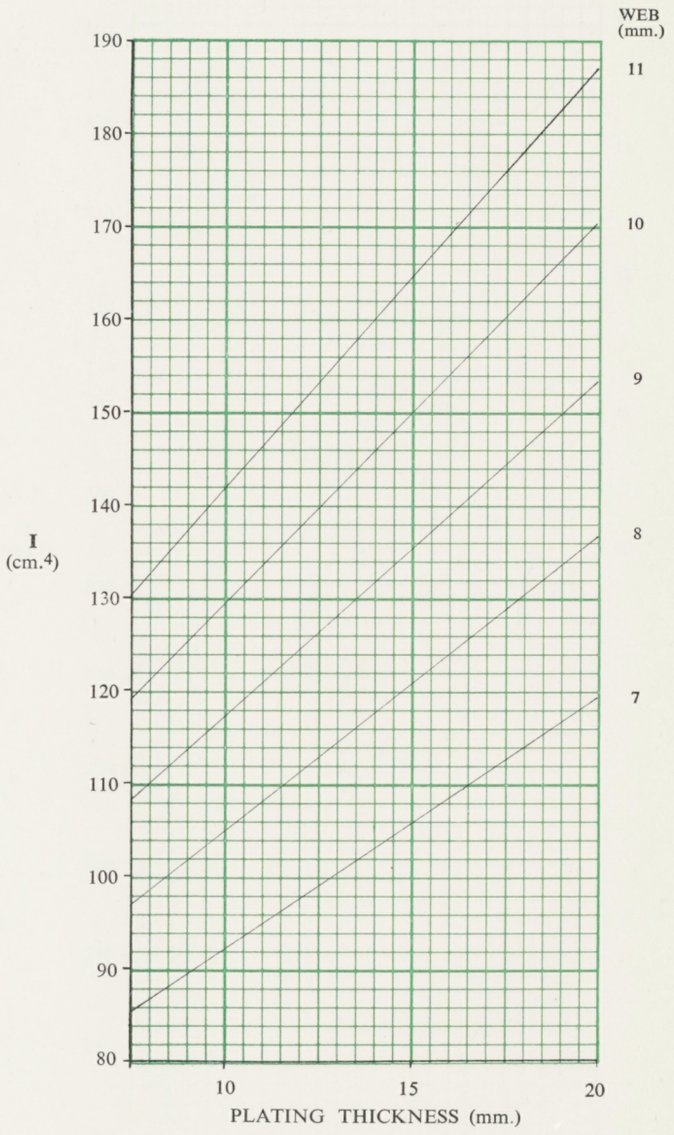
65 mm. FLANGE

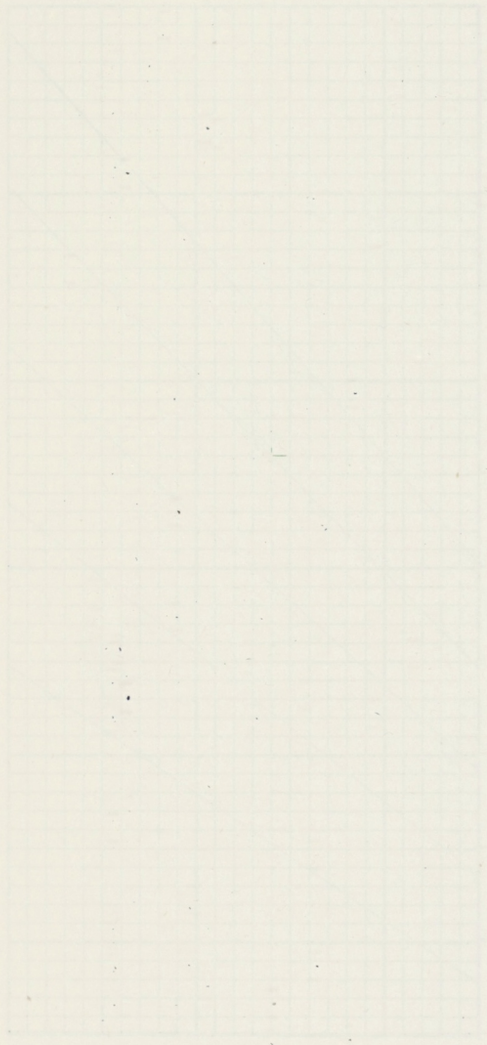
65 mm. DEPTH

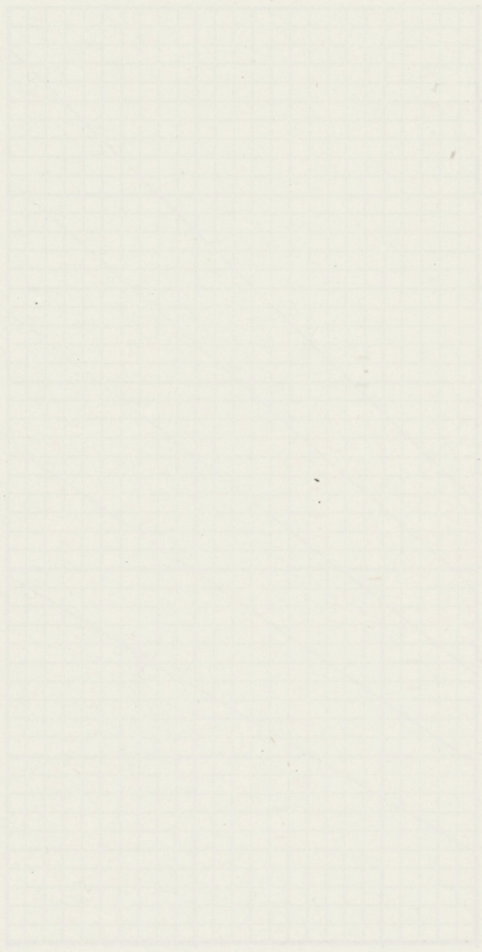


70 mm. FLANGE

70 mm. DEPTH



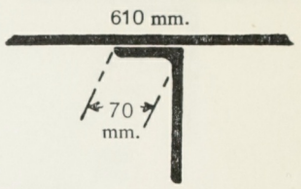




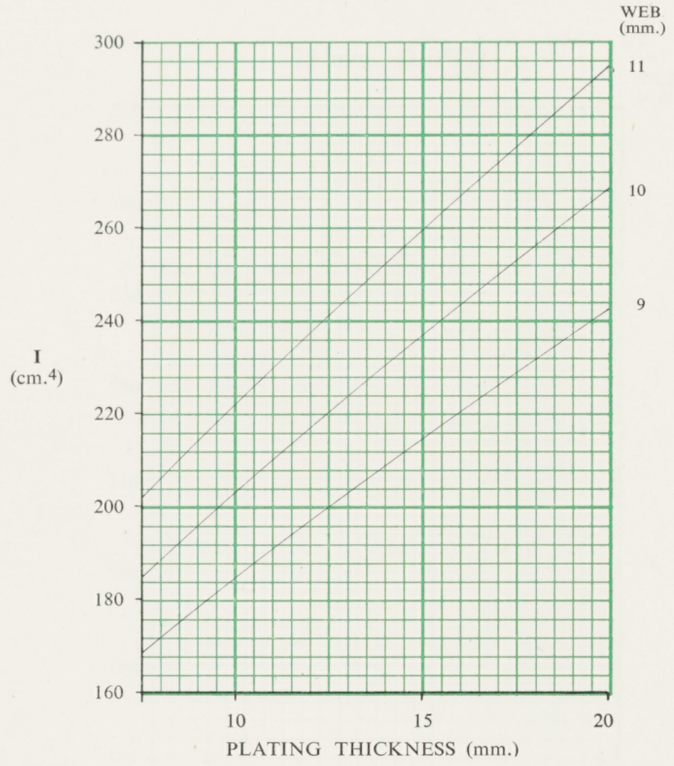
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)

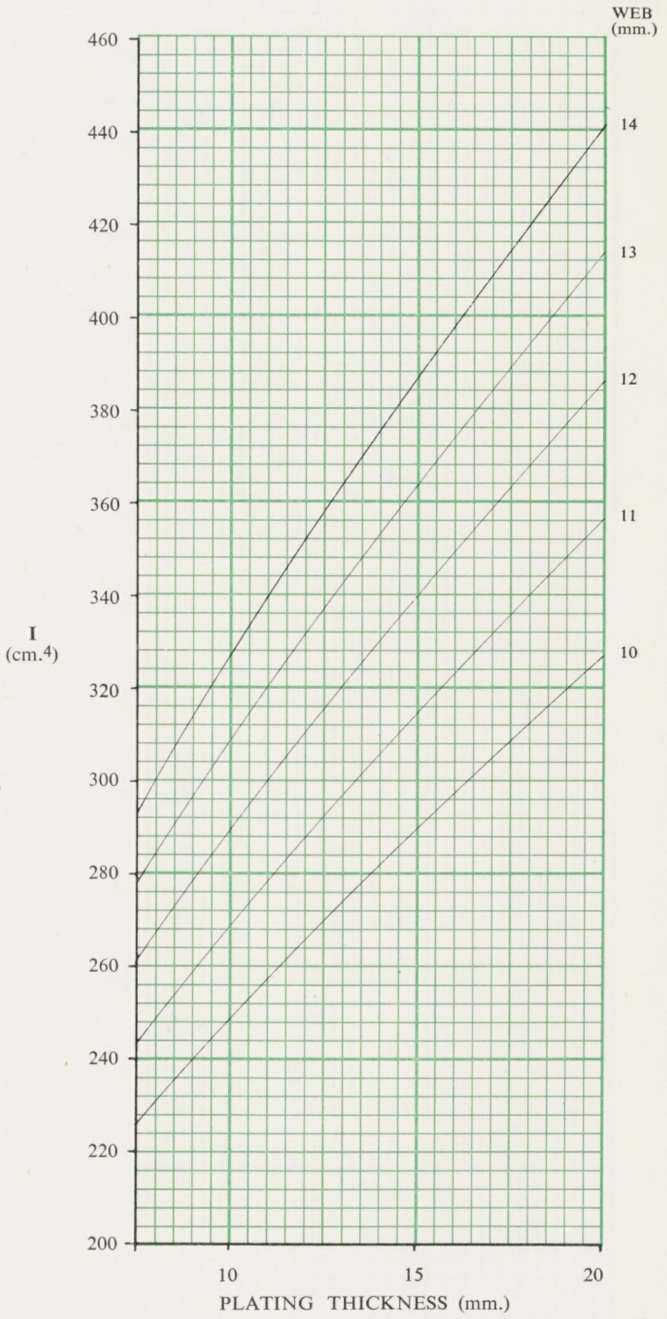
70 mm. FLANGE



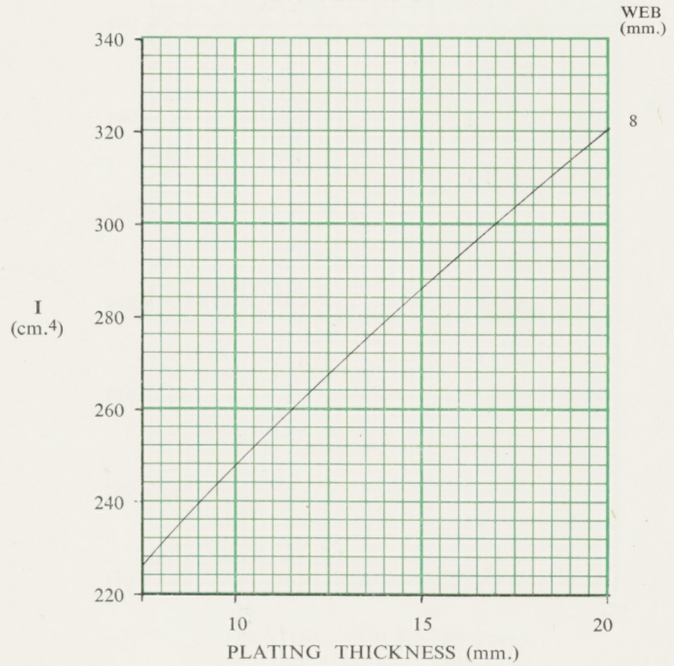
90 mm. DEPTH



100 mm. DEPTH



110 mm. DEPTH



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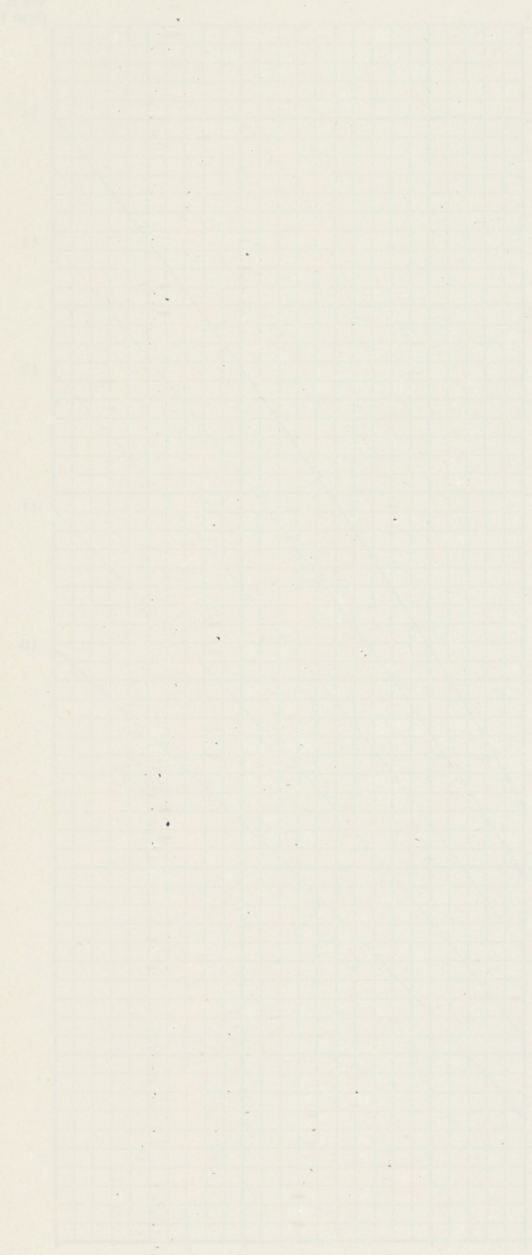
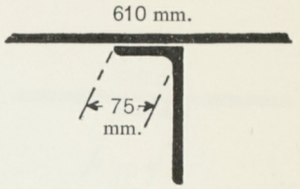


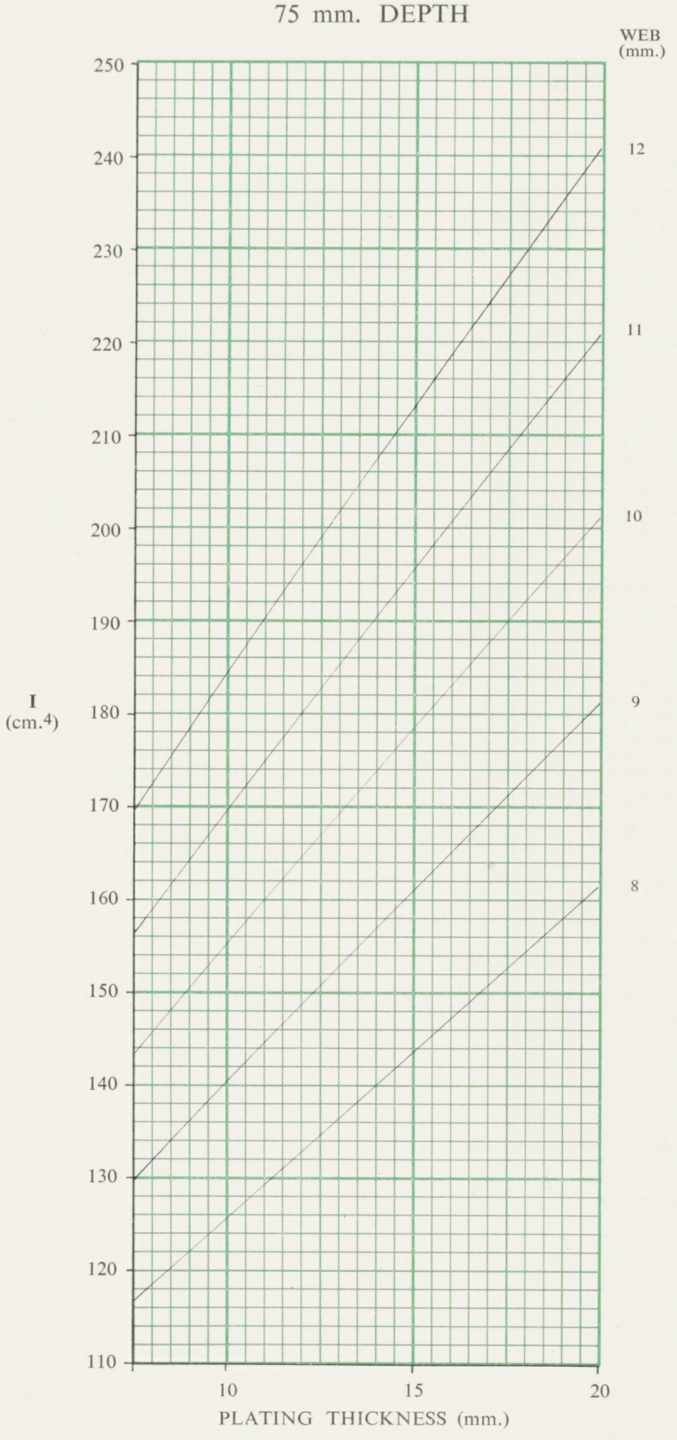
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)

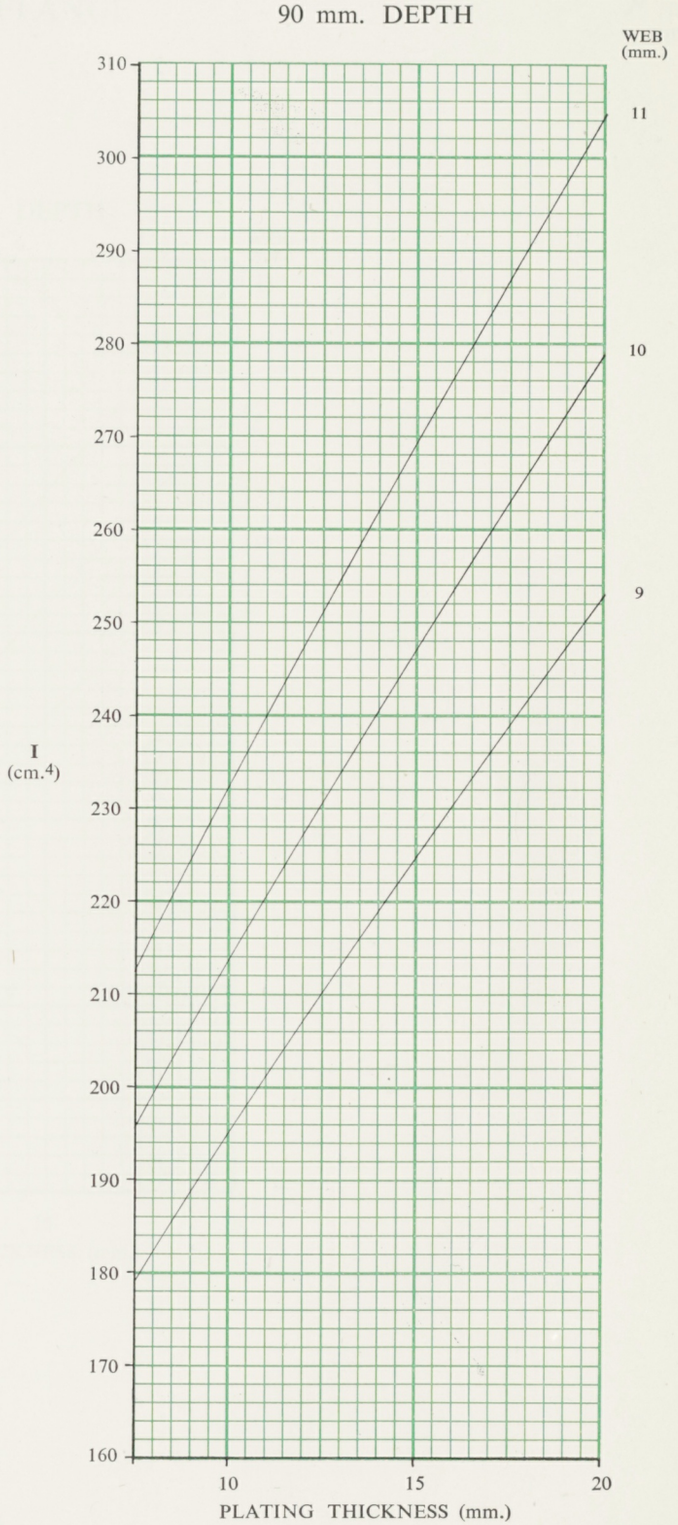


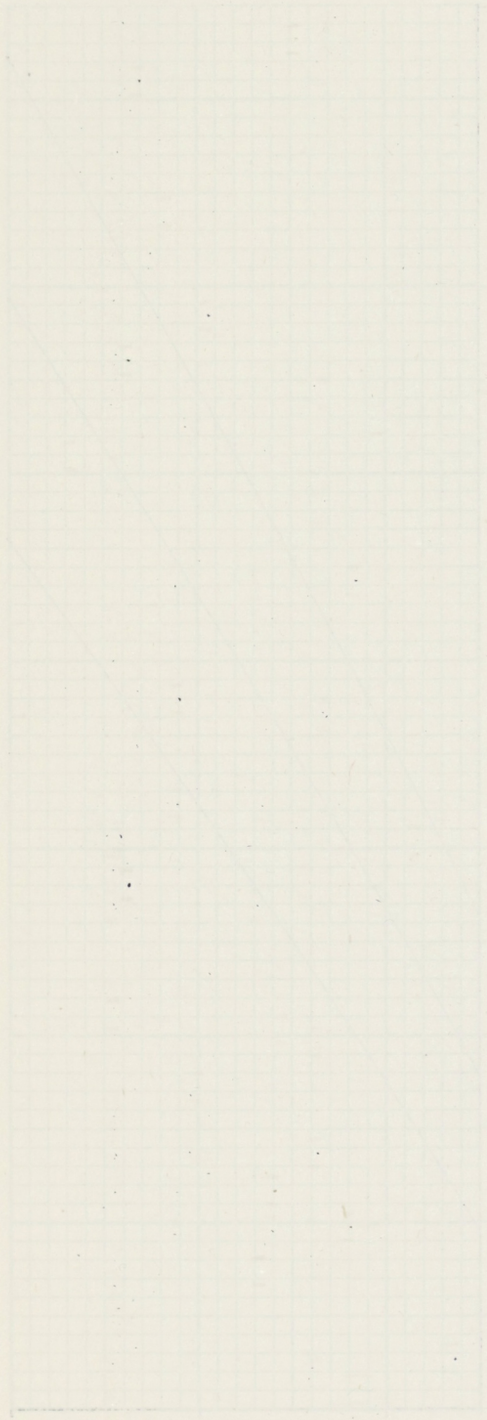
75 mm. FLANGE

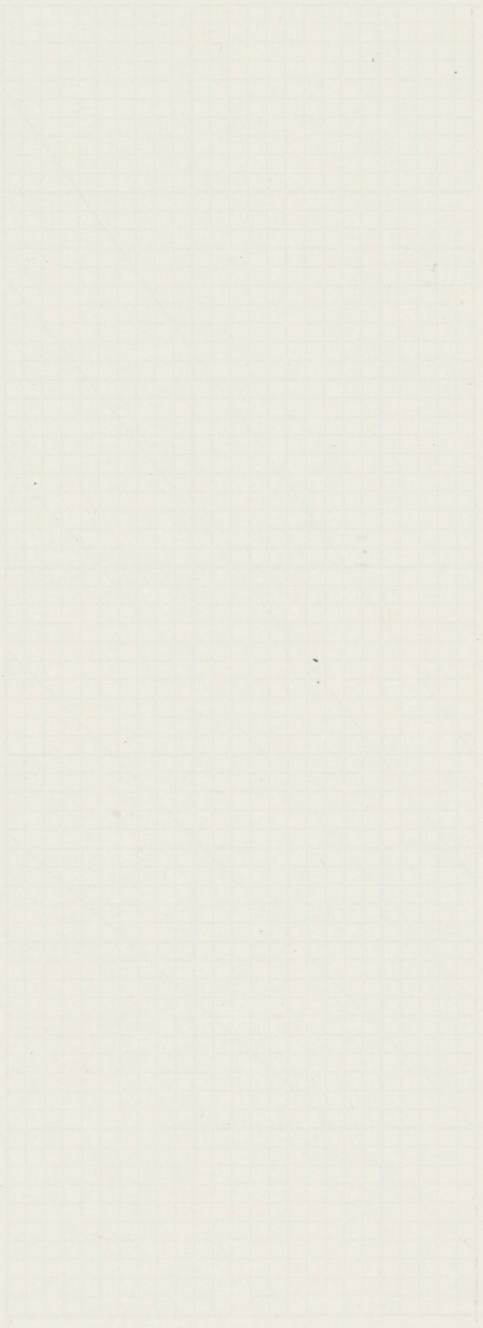
75 mm. DEPTH



90 mm. DEPTH

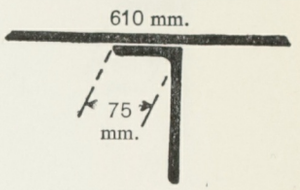






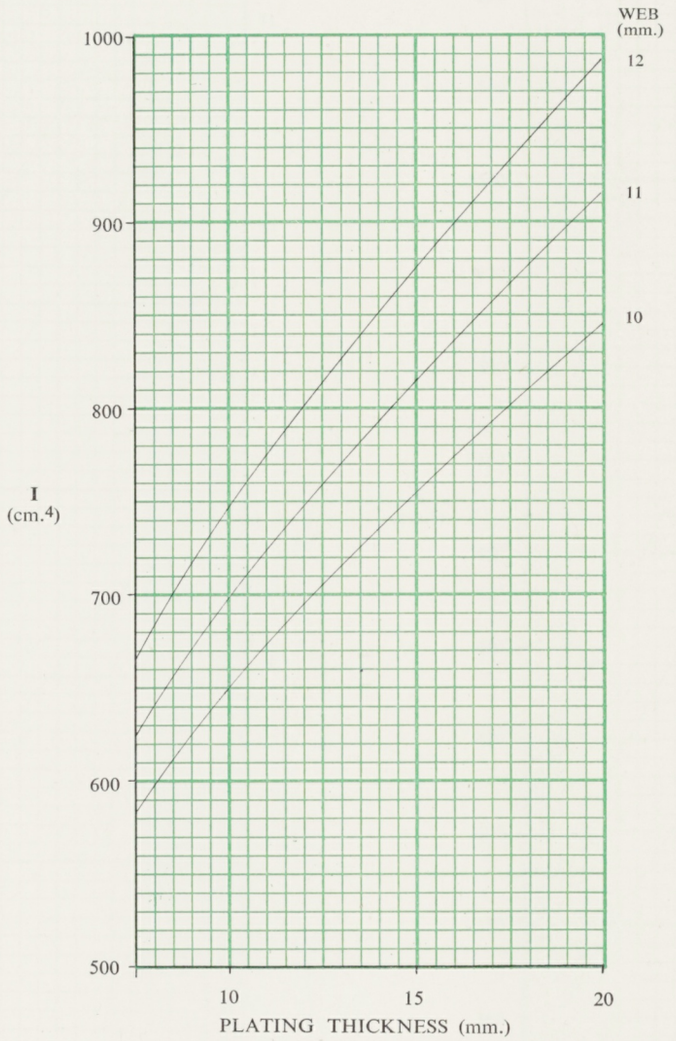
MOMENT OF INERTIA OF ORDINARY ANGLES

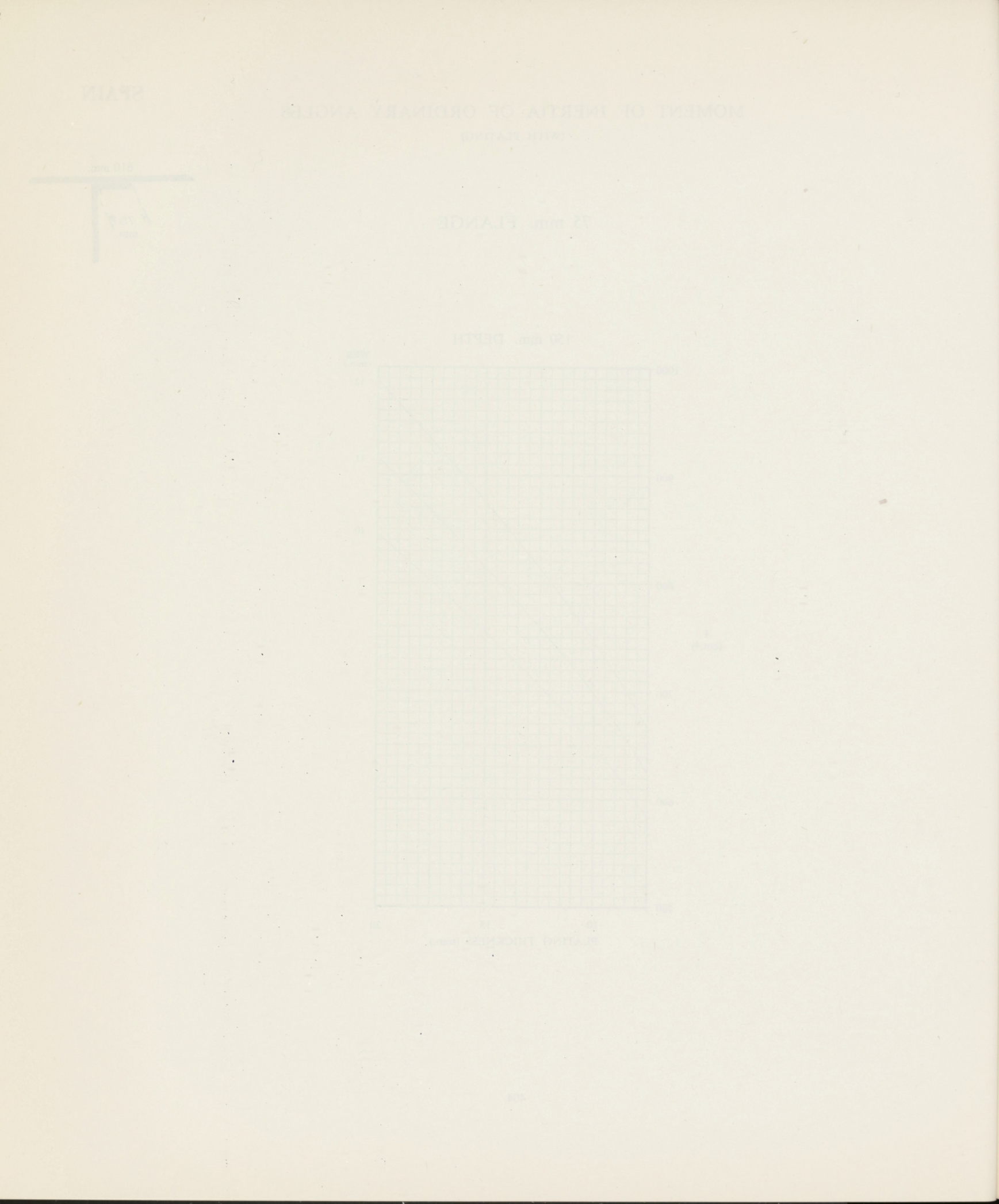
(WITH PLATING)



75 mm. FLANGE

150 mm. DEPTH

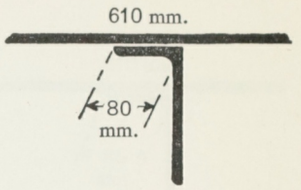




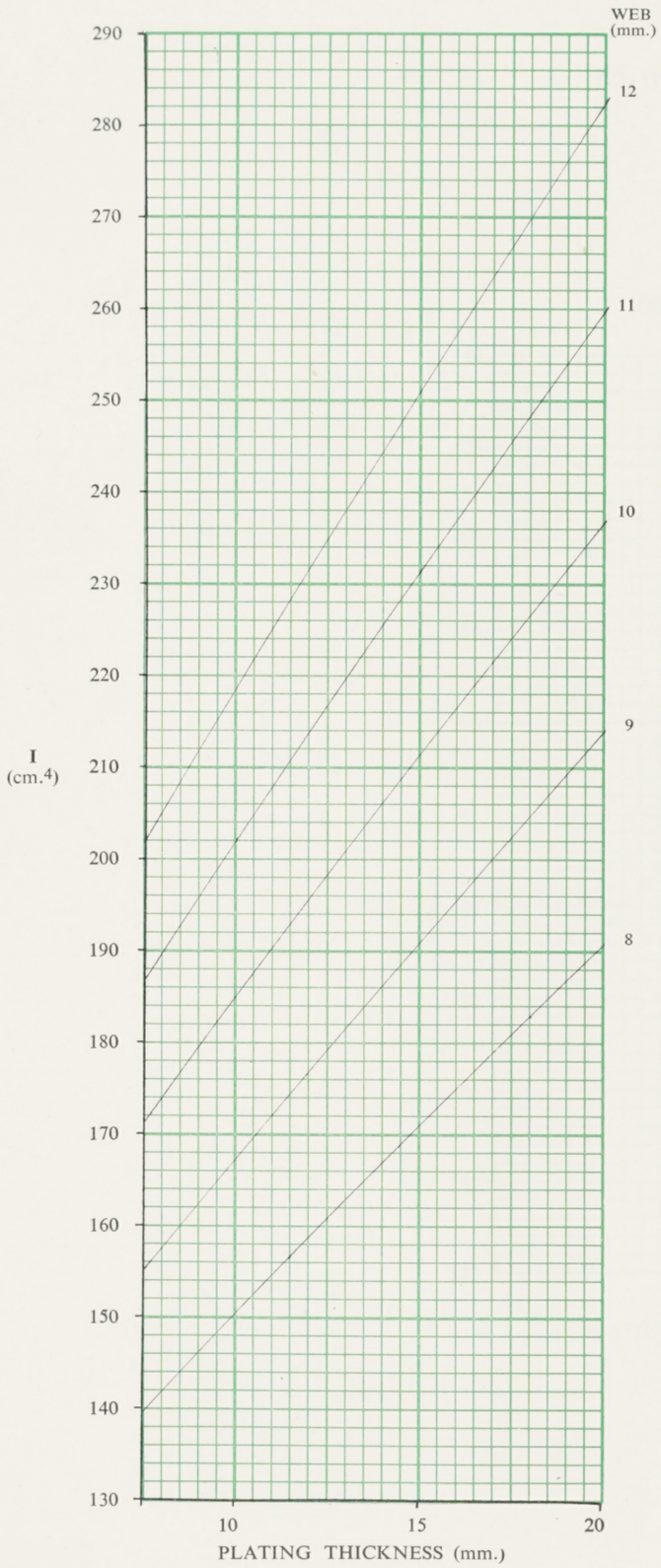
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)

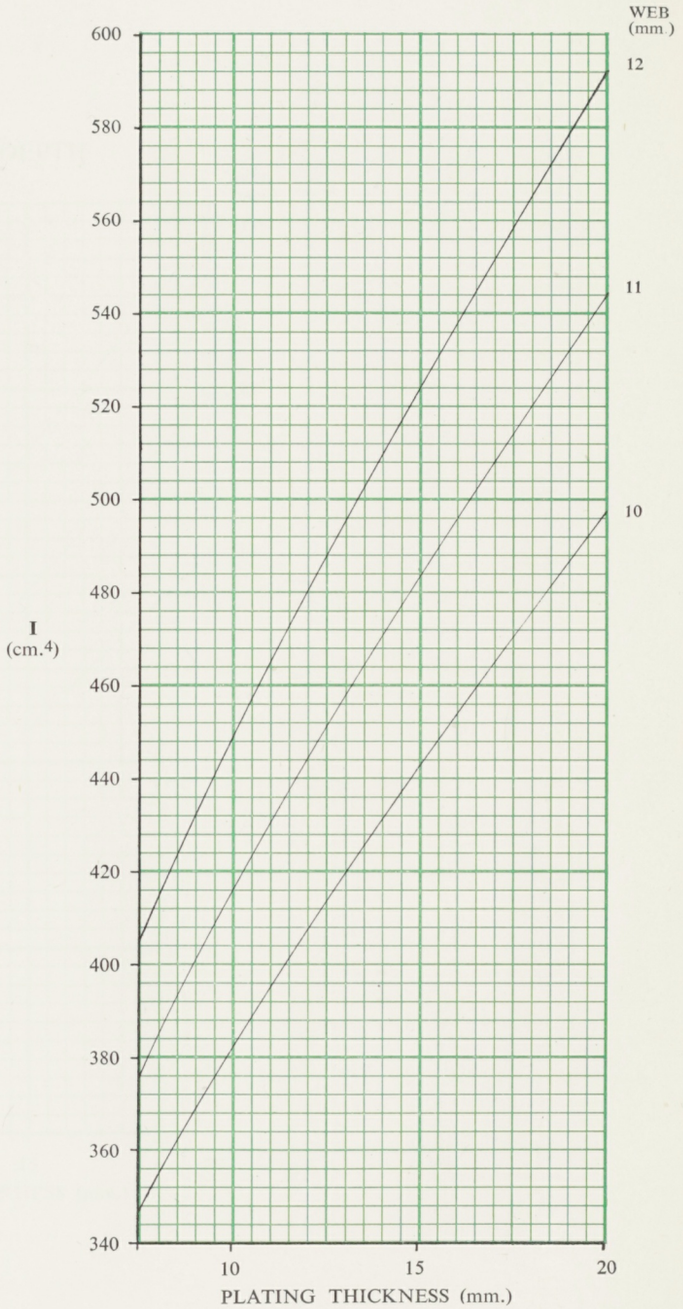
80 mm. FLANGE

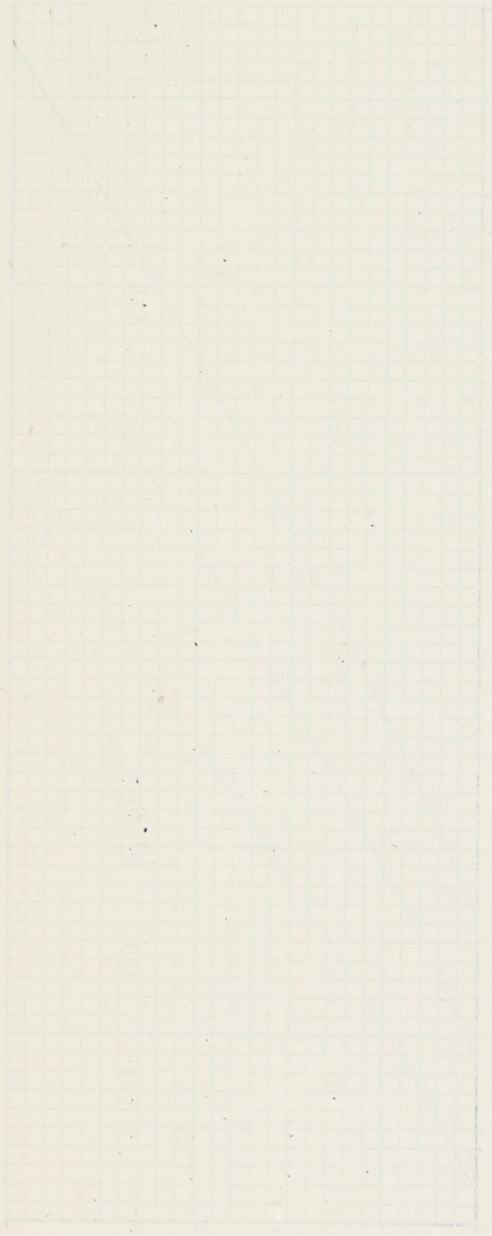


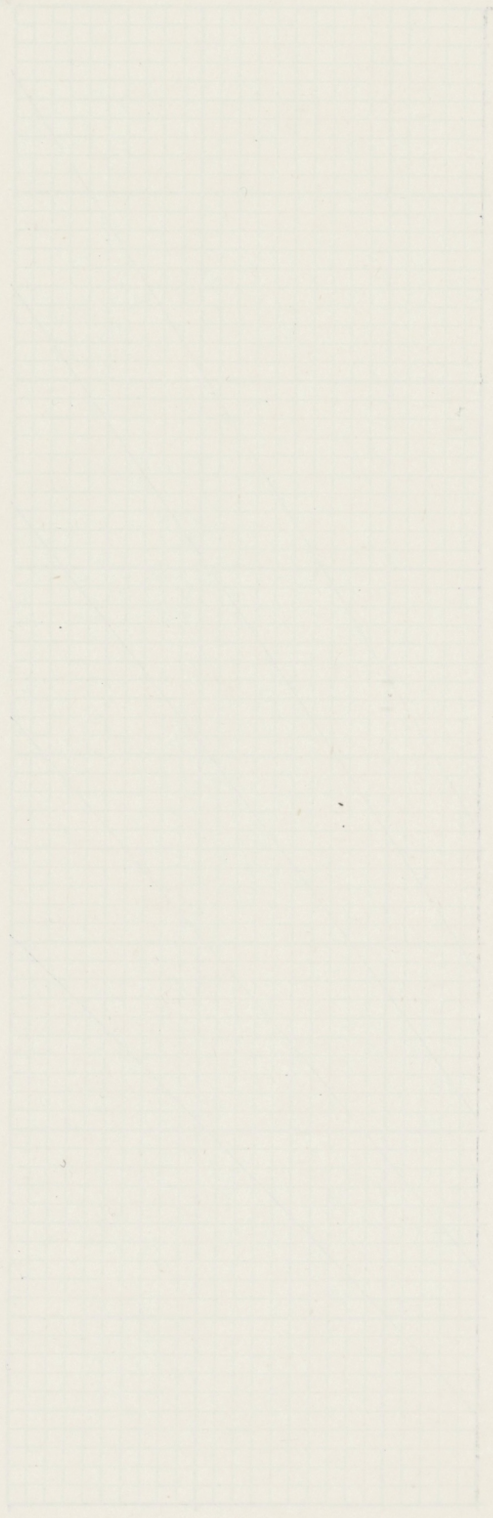
80 mm. DEPTH



120 mm. DEPTH

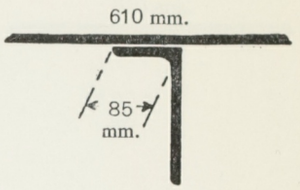






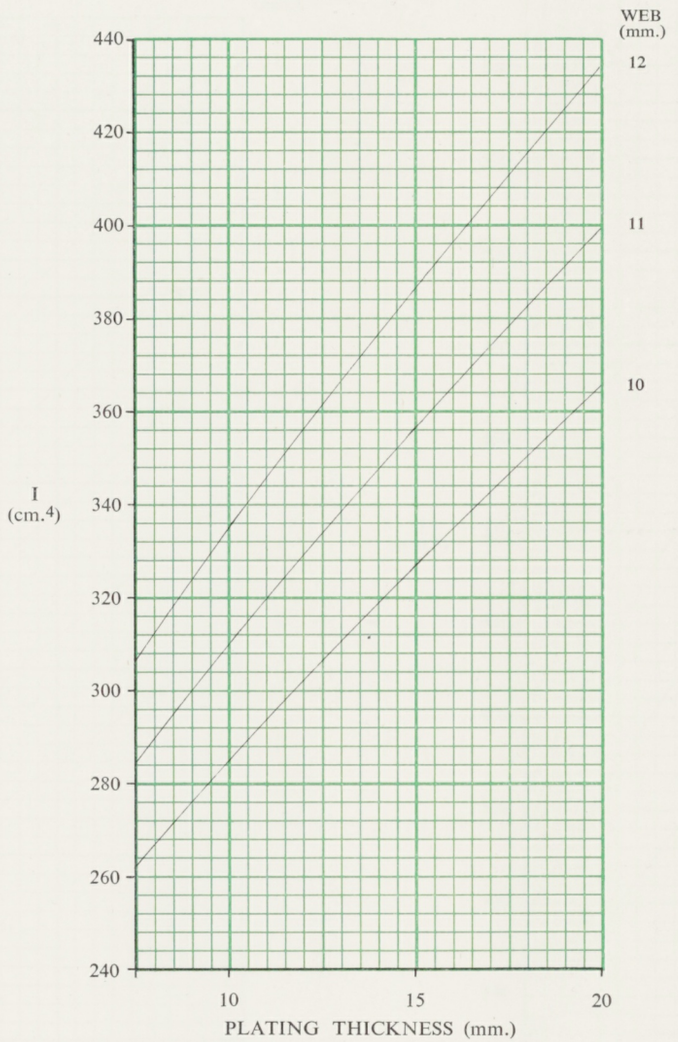
MOMENT OF INERTIA OF ORDINARY ANGLES

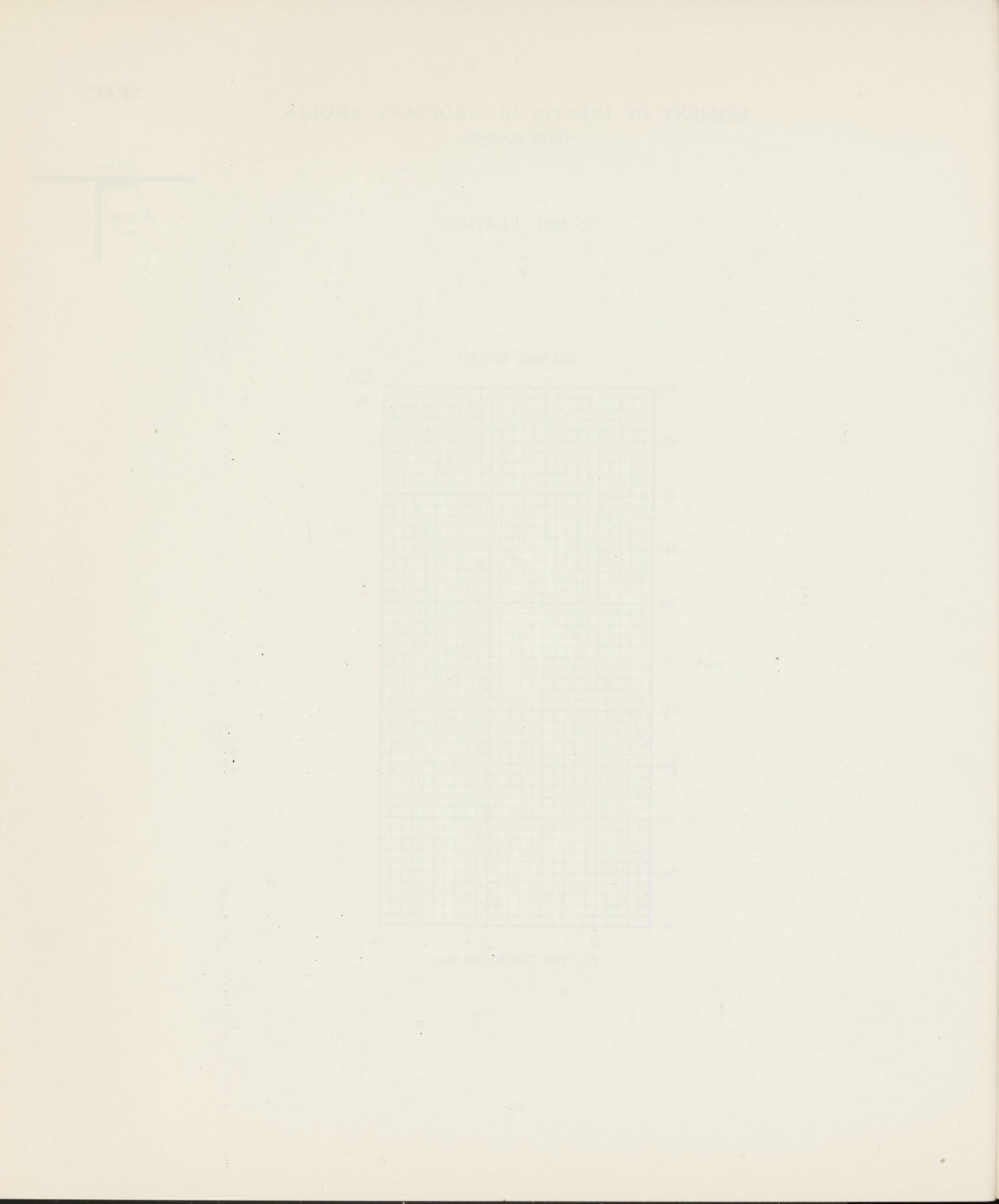
(WITH PLATING)



85 mm. FLANGE

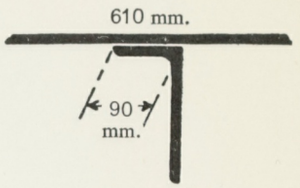
100 mm. DEPTH





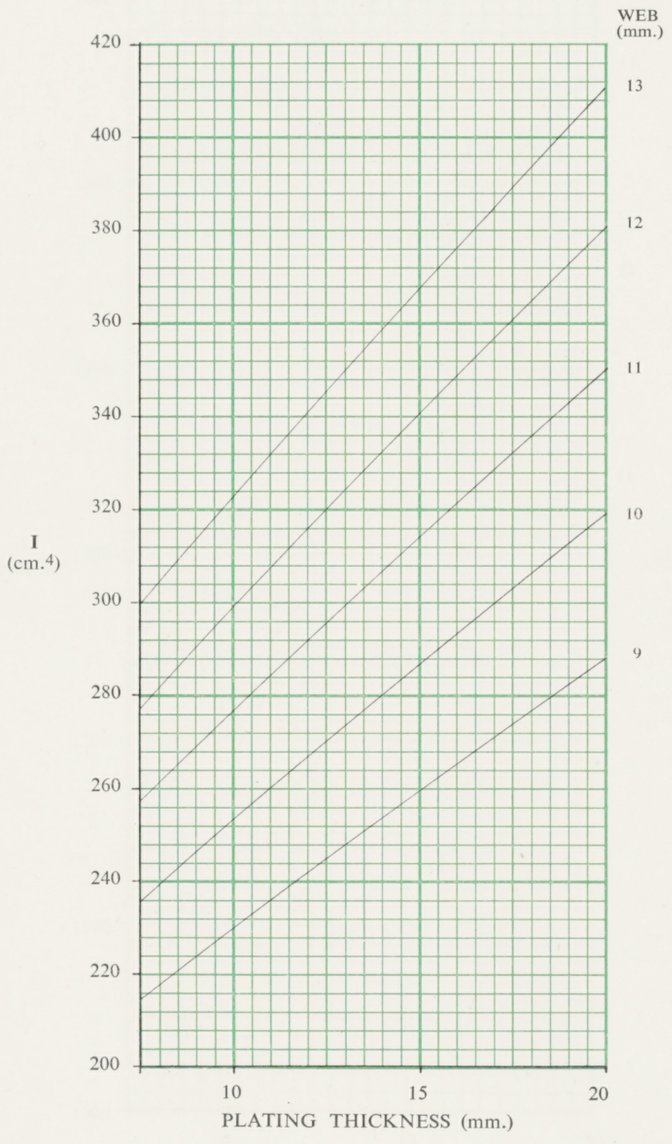
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)

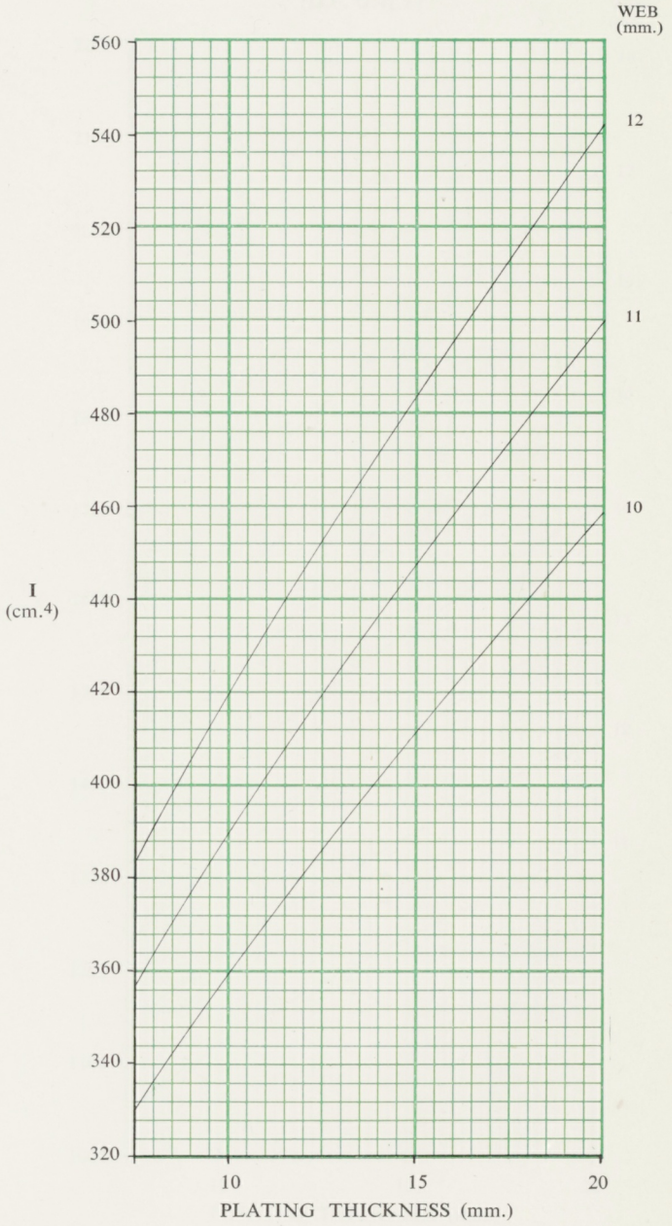


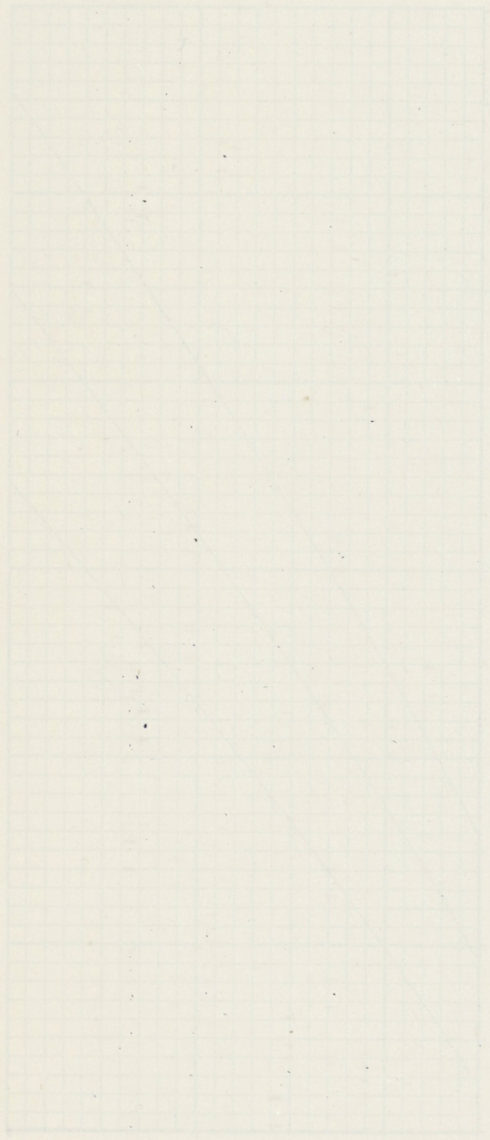
90 mm. FLANGE

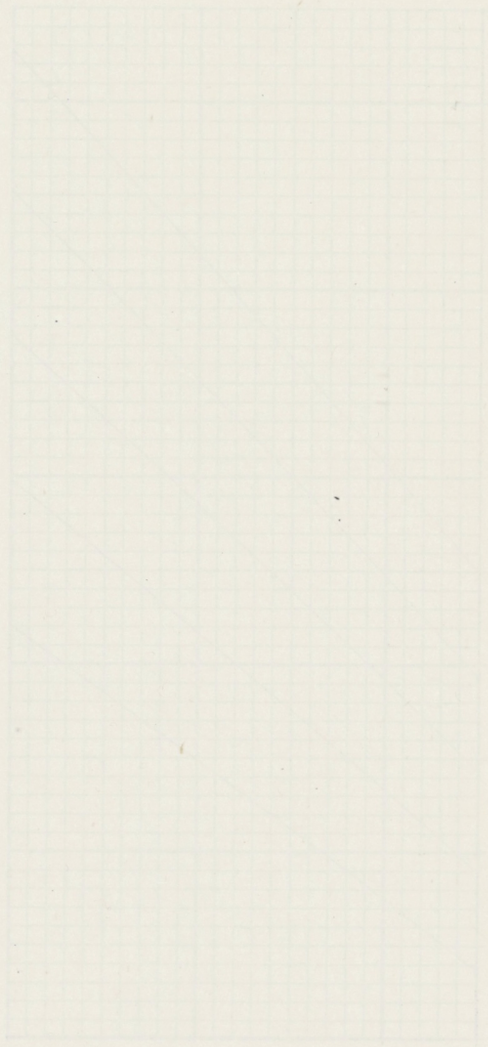
90 mm. DEPTH



110 mm. DEPTH

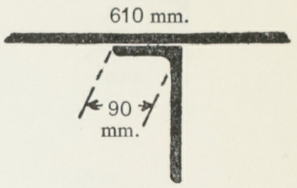






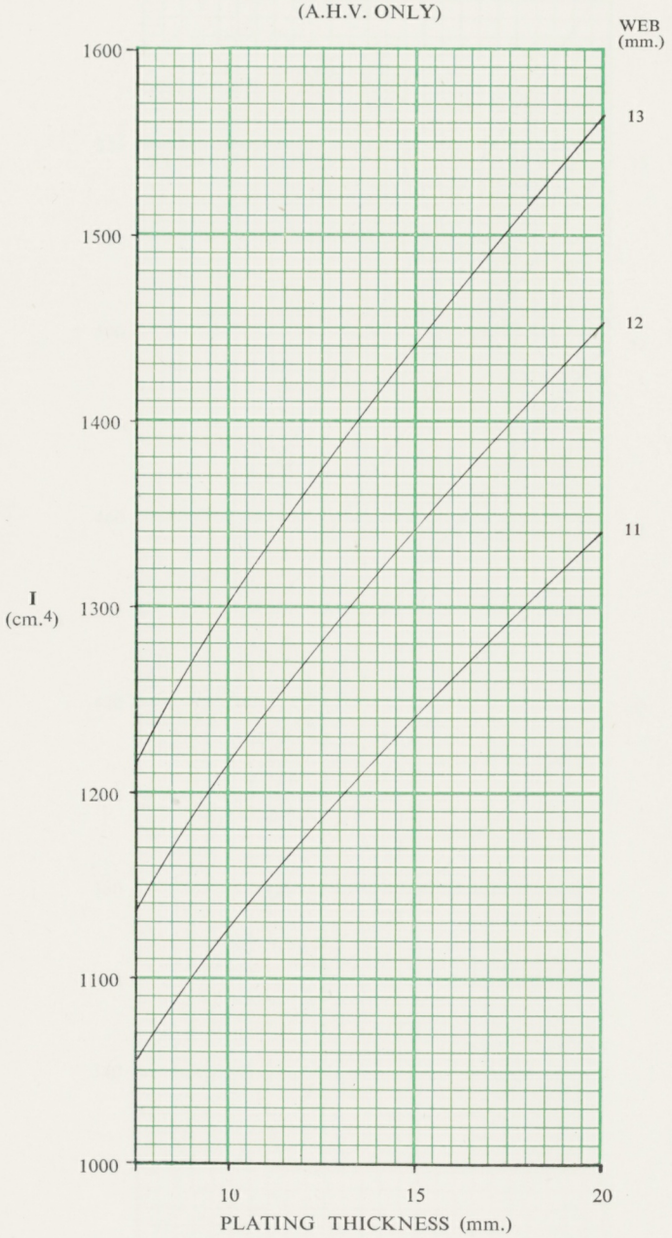
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)

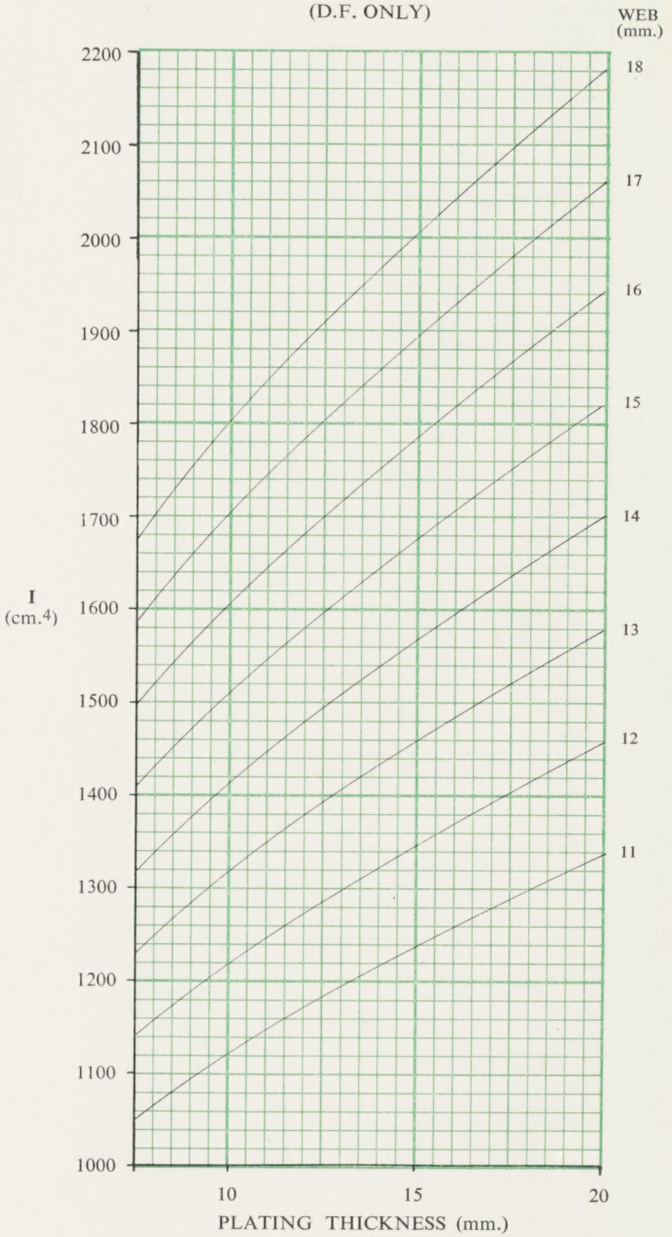


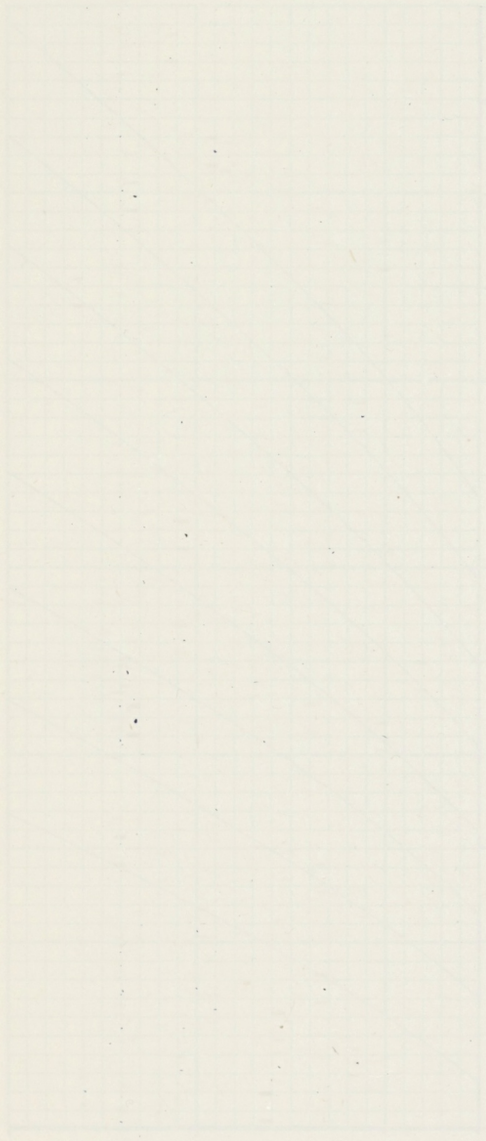
90 mm. FLANGE

150 mm. DEPTH
(A.H.V. ONLY)



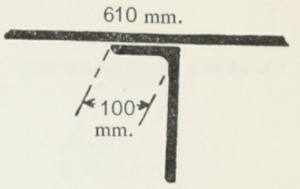
150 mm. DEPTH
(D.F. ONLY)





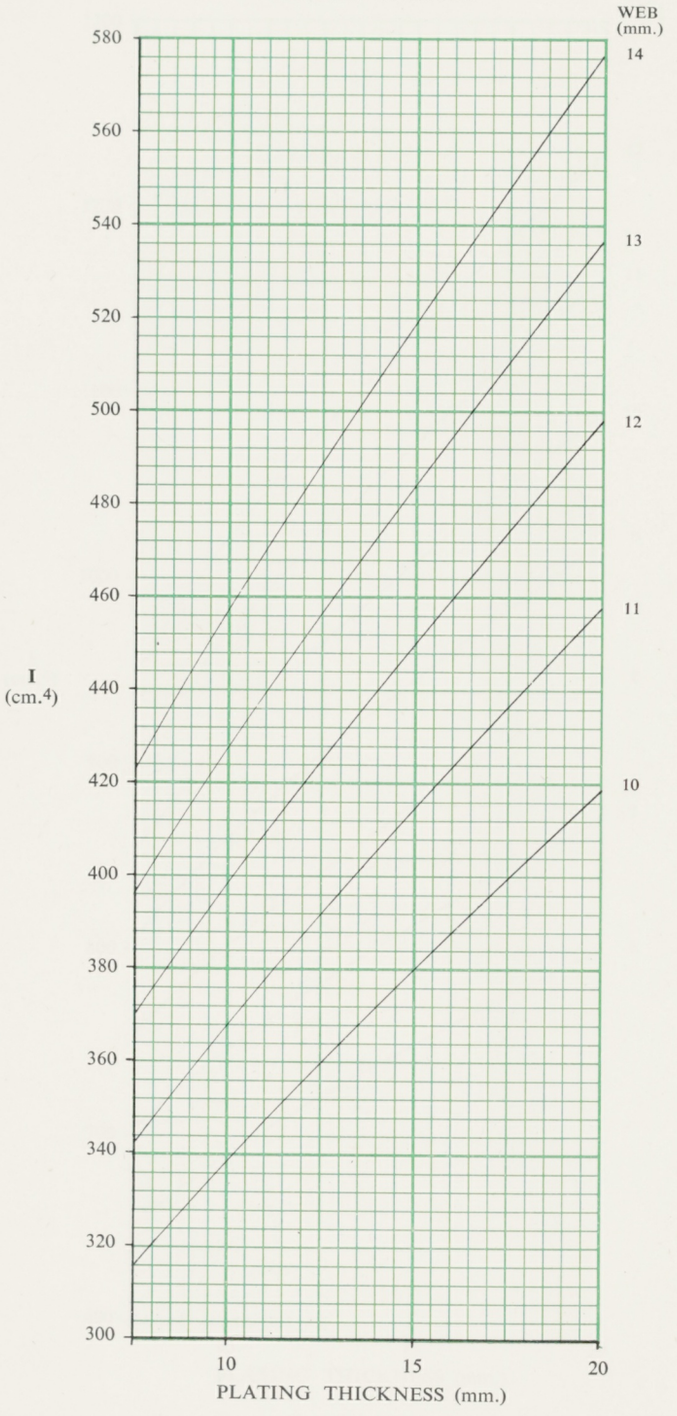
MOMENT OF INERTIA OF ORDINARY ANGLES

(WITH PLATING)

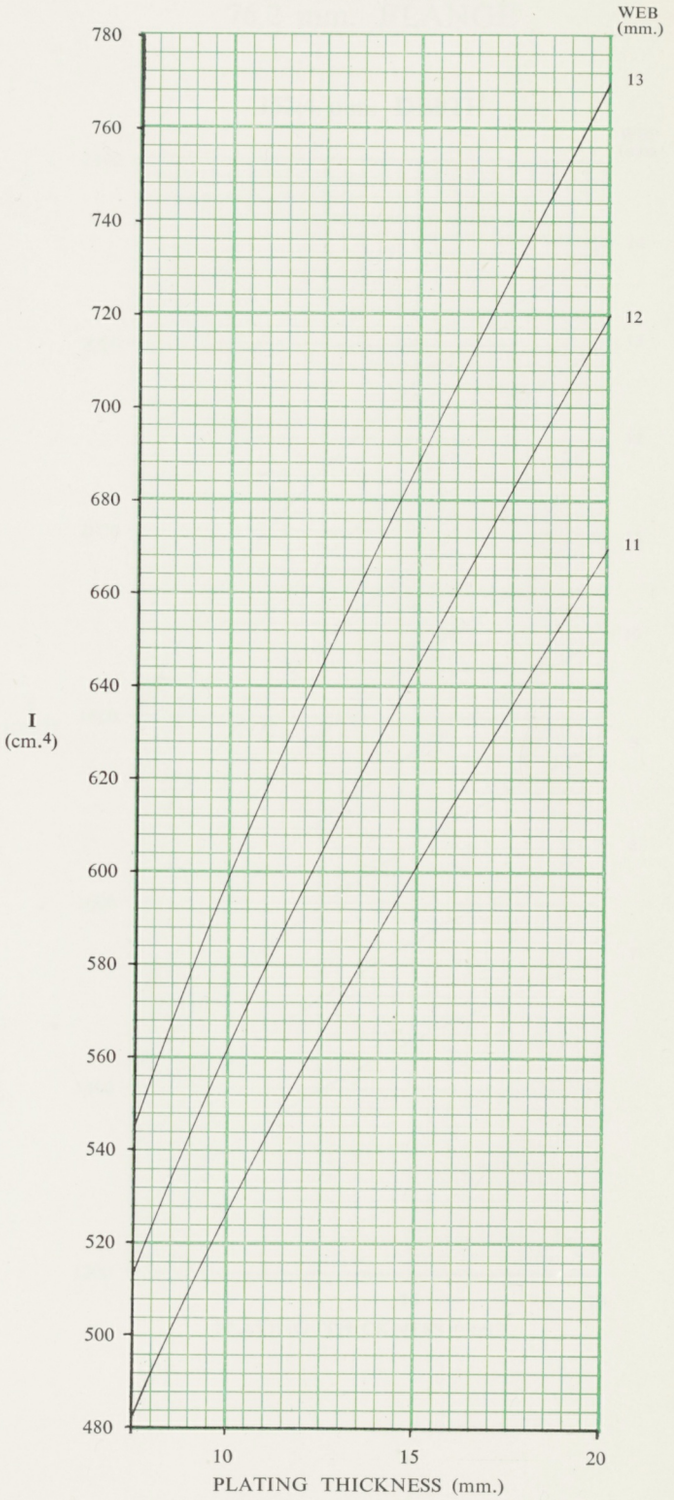


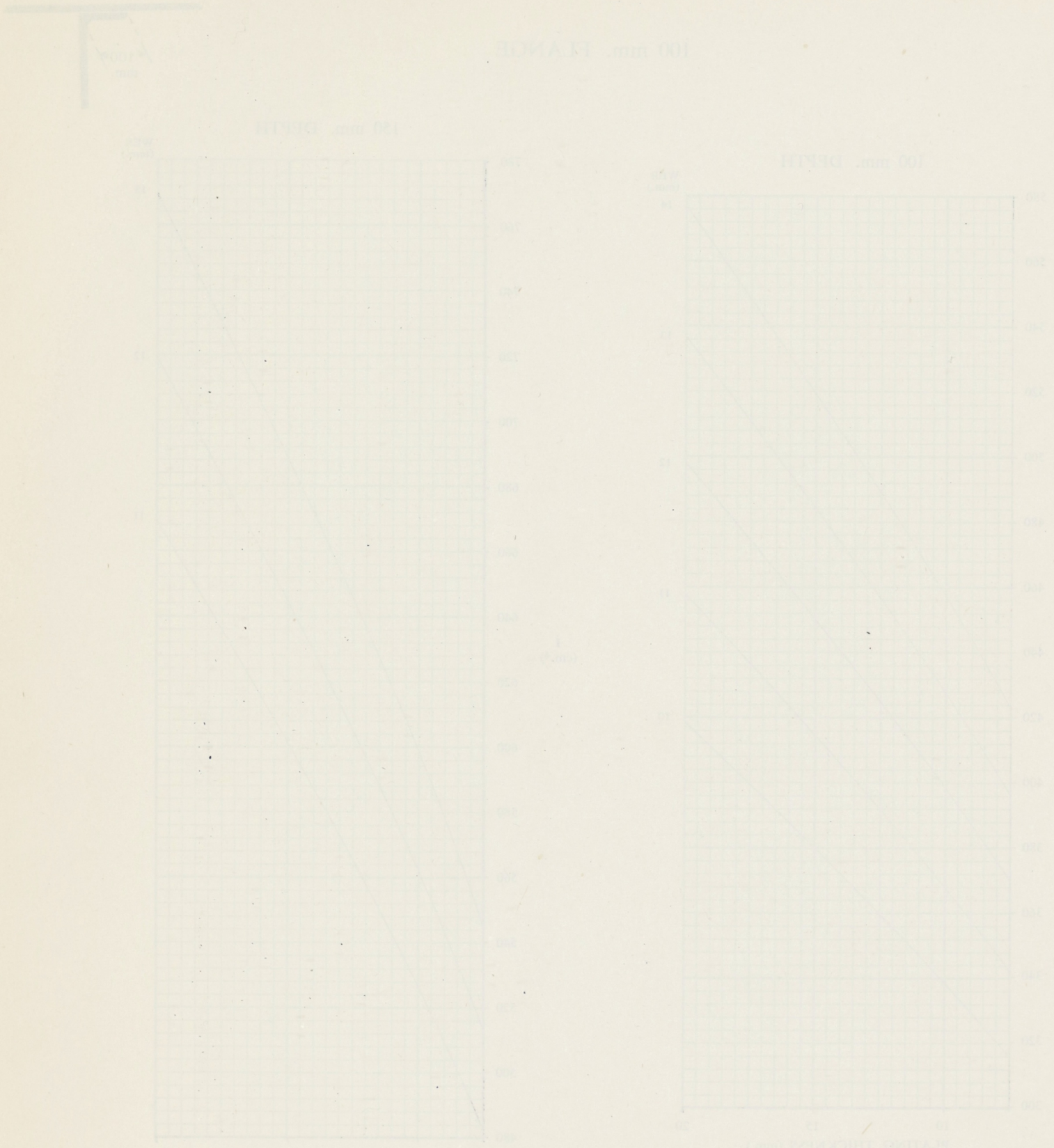
100 mm. FLANGE

100 mm. DEPTH



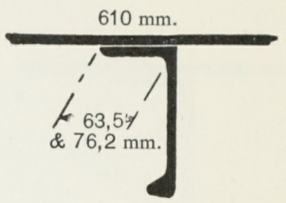
150 mm. DEPTH





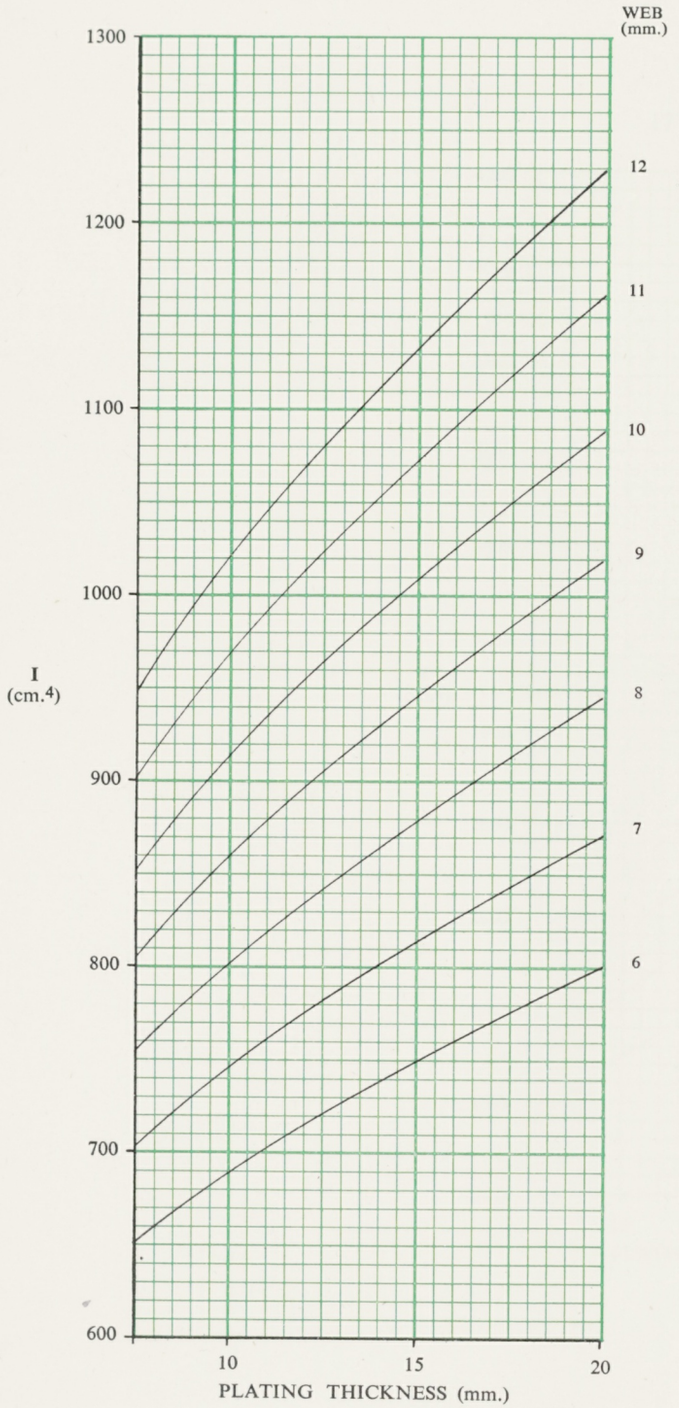
MOMENT OF INERTIA OF BULB ANGLES

(WITH PLATING)



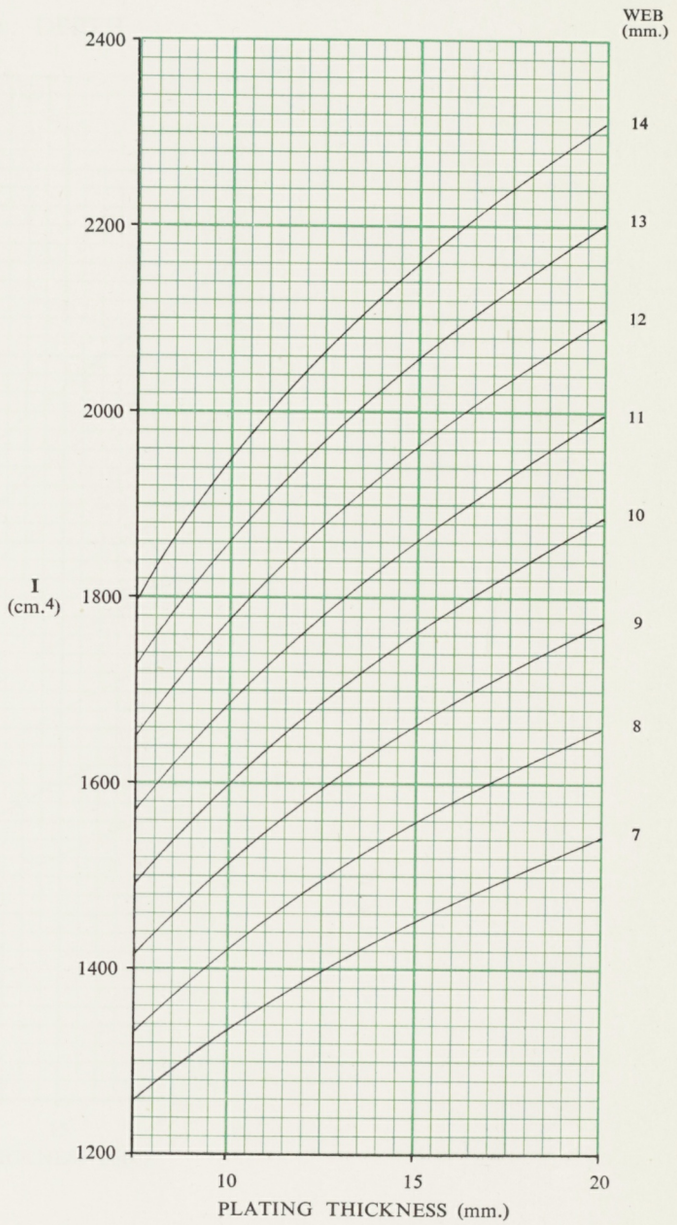
63,5 mm. FLANGE

127 mm. DEPTH



76,2 mm. FLANGE

152,4 mm. DEPTH



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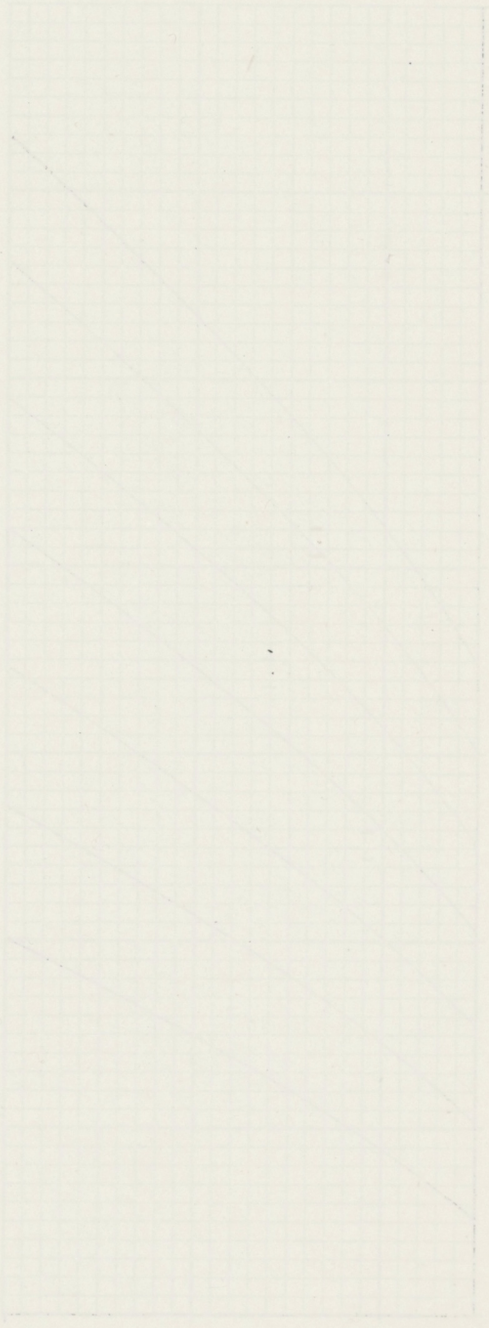
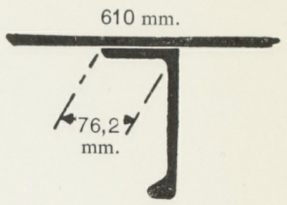


SPAIN

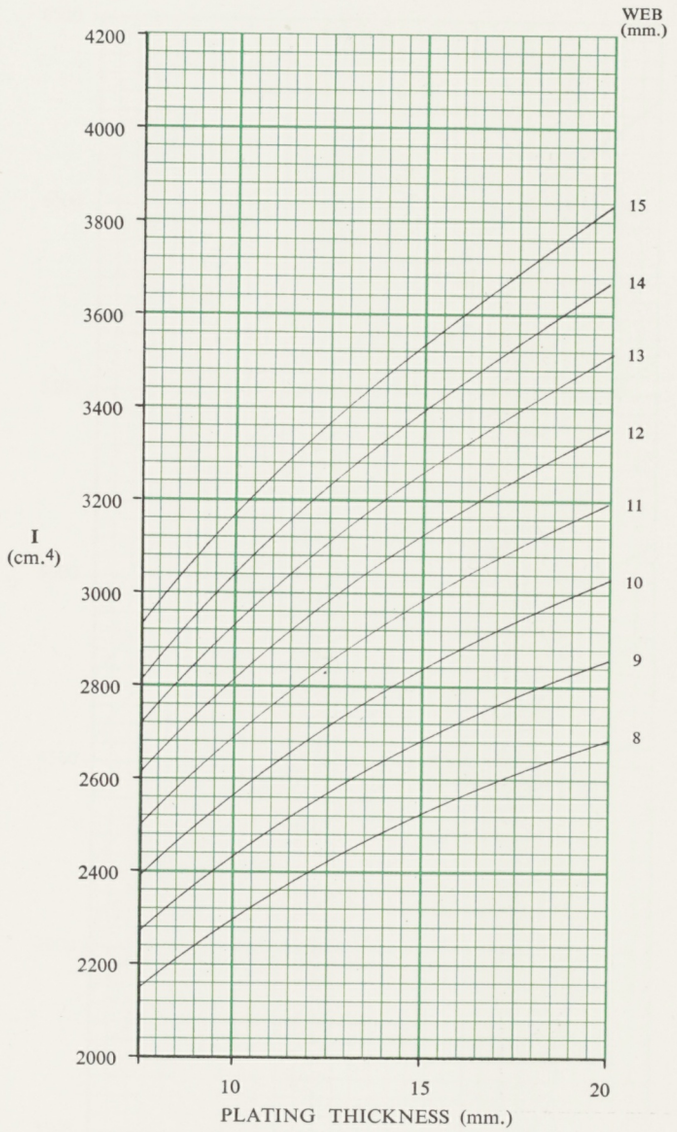
MOMENT OF INERTIA OF BULB ANGLES

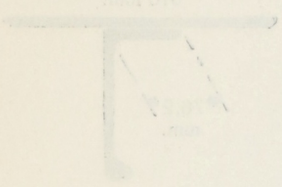
(WITH PLATING)



76,2 mm. FLANGE

177,8 mm. DEPTH

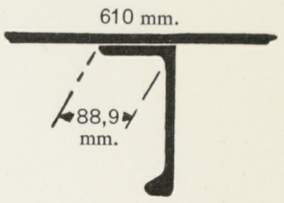




SPAIN

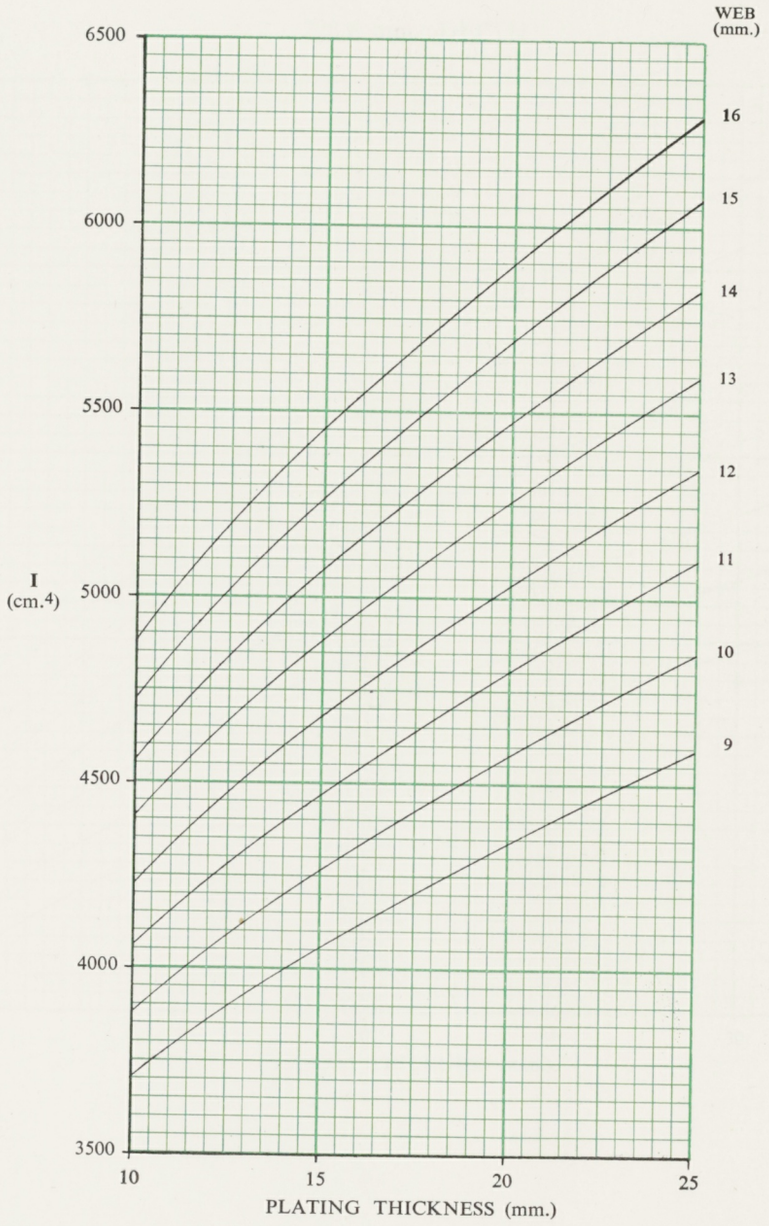
MOMENT OF INERTIA OF BULB ANGLES

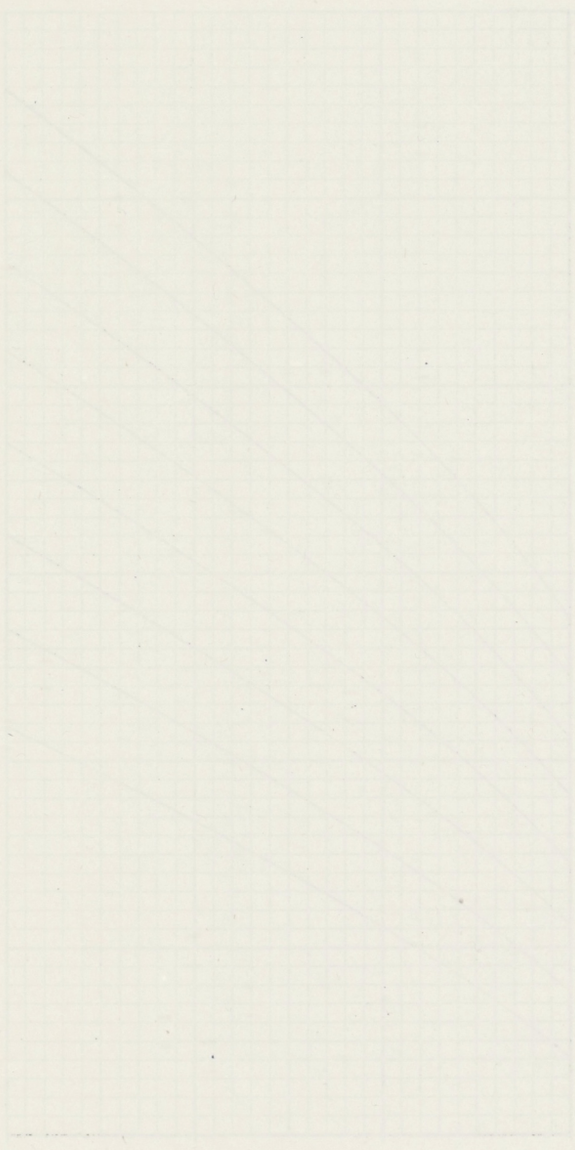
(WITH PLATING)



88,9 mm. FLANGE

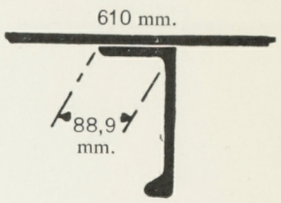
203,2 mm. DEPTH





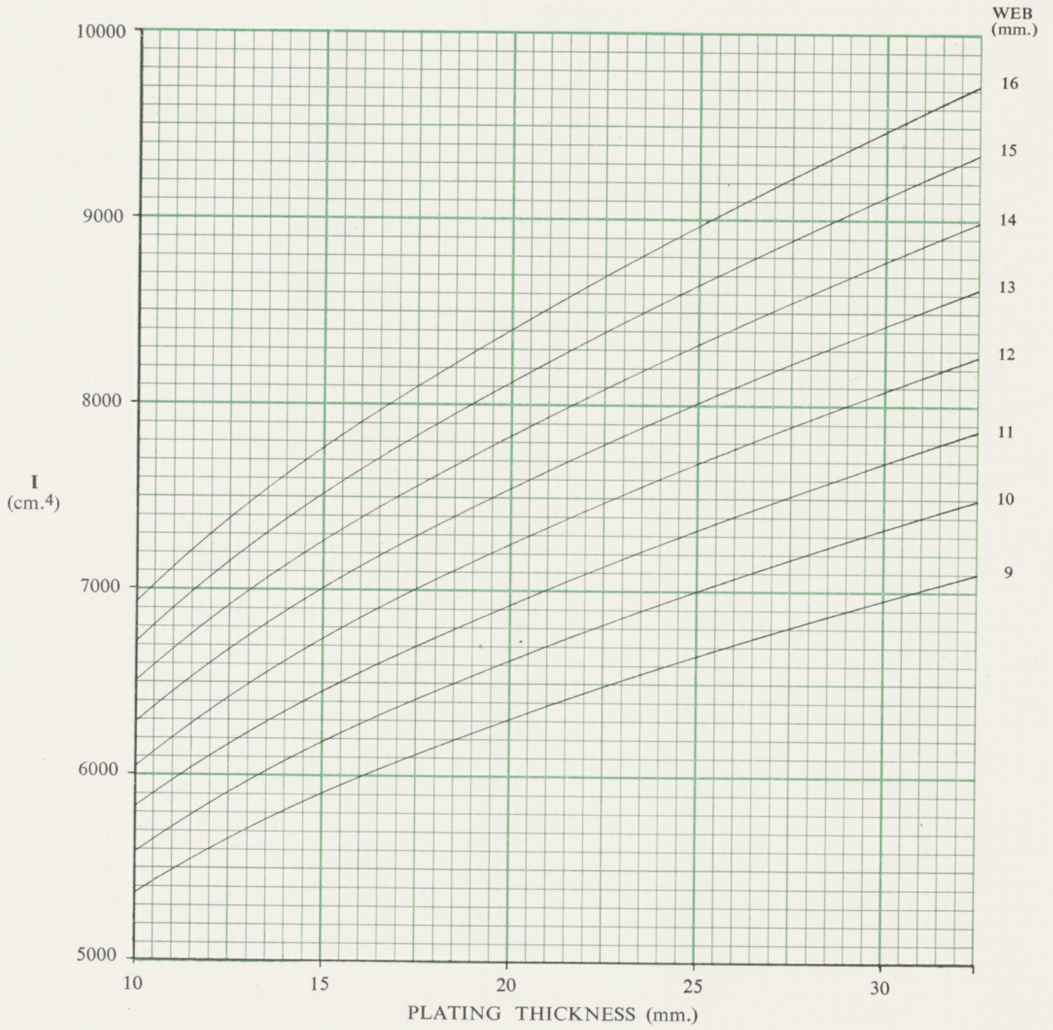
MOMENT OF INERTIA OF BULB ANGLES

(WITH PLATING)



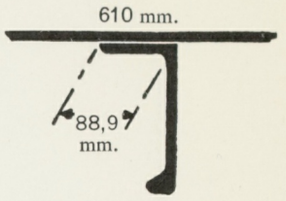
88,9 mm. FLANGE

228,6 mm. DEPTH



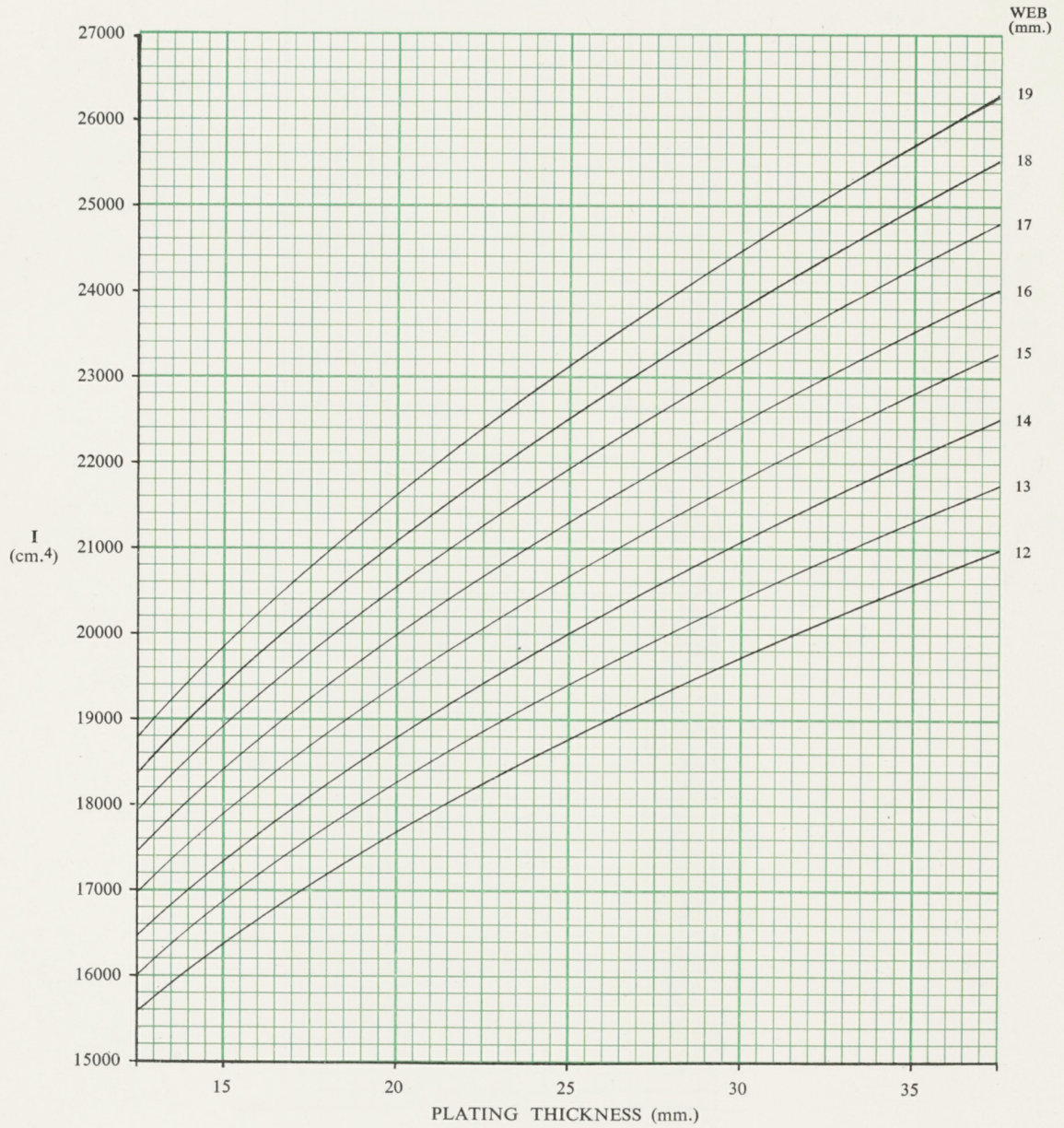
MOMENT OF INERTIA OF BULB ANGLES

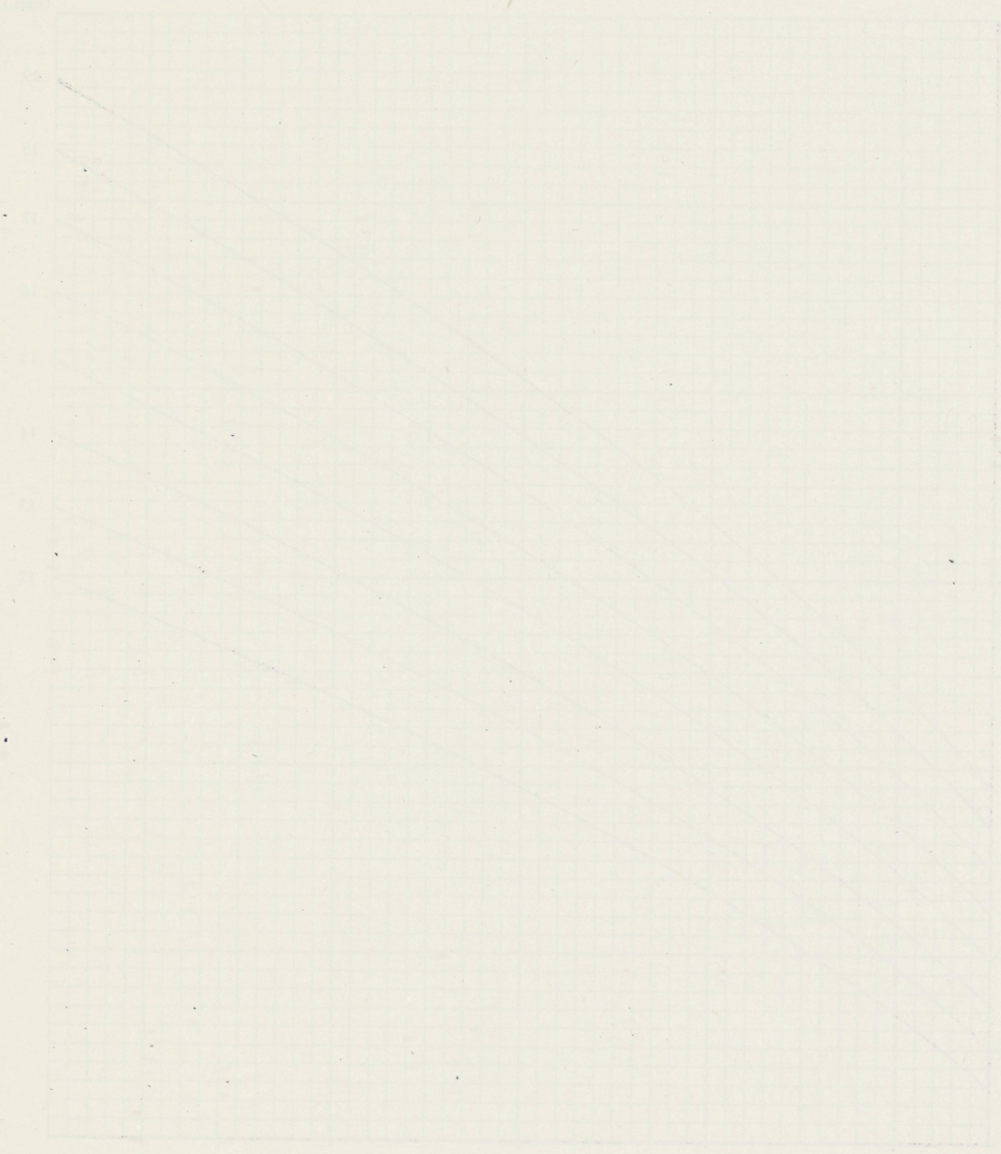
(WITH PLATING)



88,9 mm. FLANGE

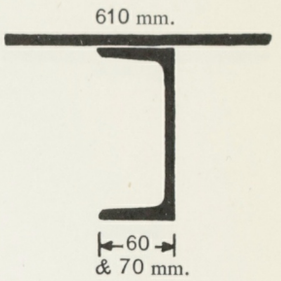
304,8 mm. DEPTH

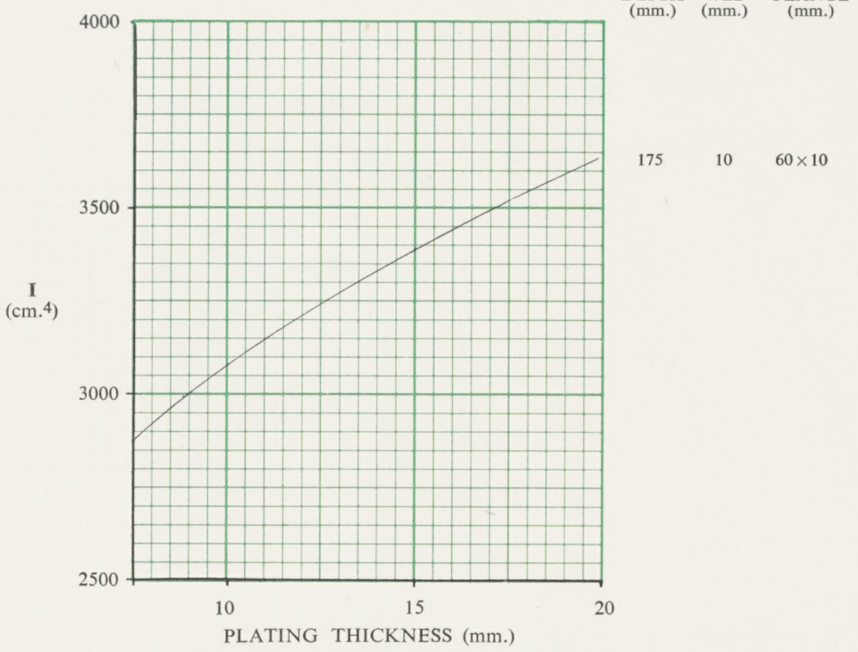




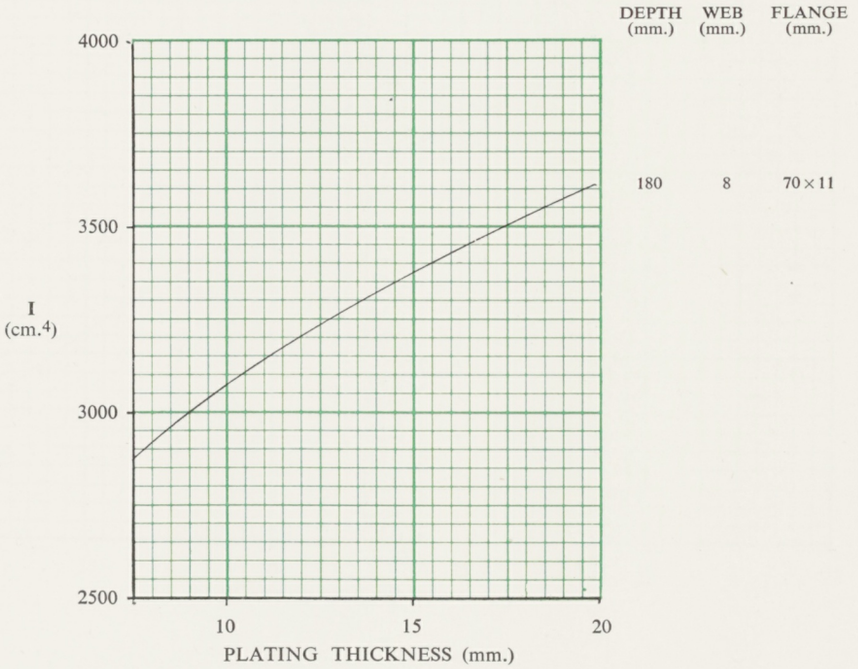
MOMENT OF INERTIA OF CHANNELS

(WITH PLATING)

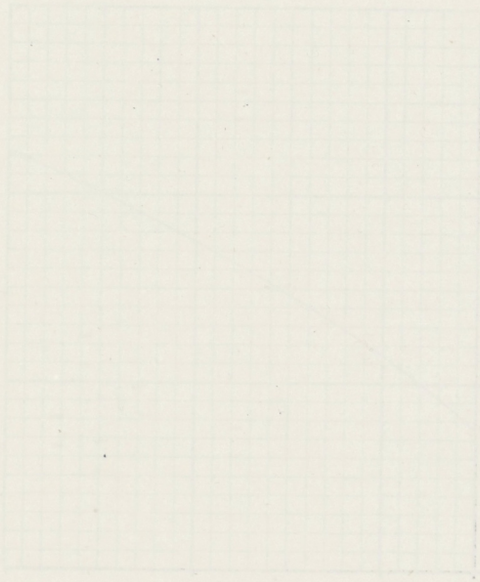




DEPTH (mm.)	WEB (mm.)	FLANGE (mm.)
175	10	60×10

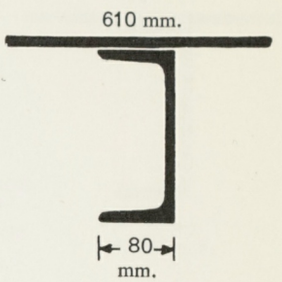


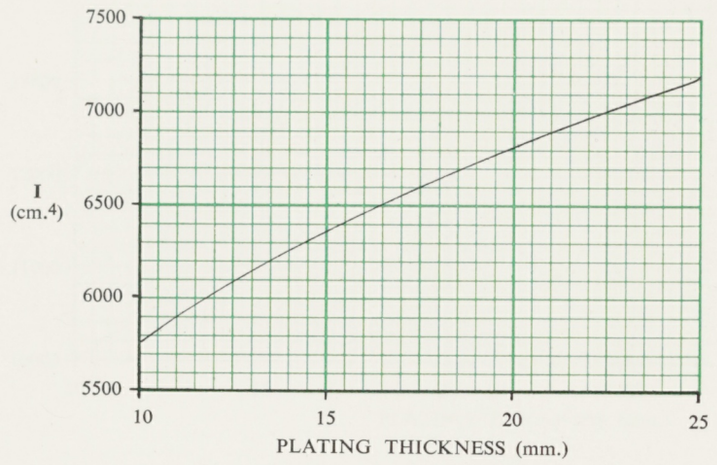
DEPTH (mm.)	WEB (mm.)	FLANGE (mm.)
180	8	70×11



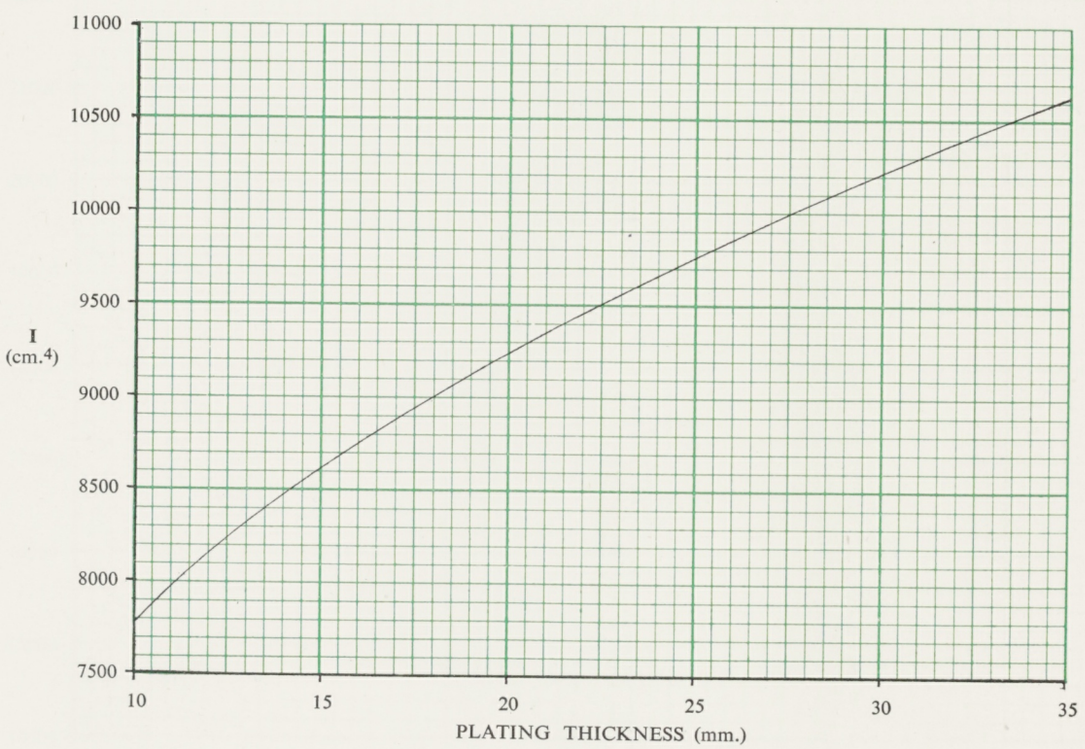
MOMENT OF INERTIA OF CHANNELS

(WITH PLATING)





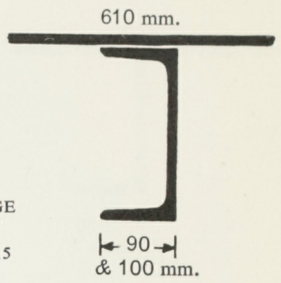
DEPTH (mm.)	WEB (mm.)	FLANGE (mm.)
220	9	80 × 12,50



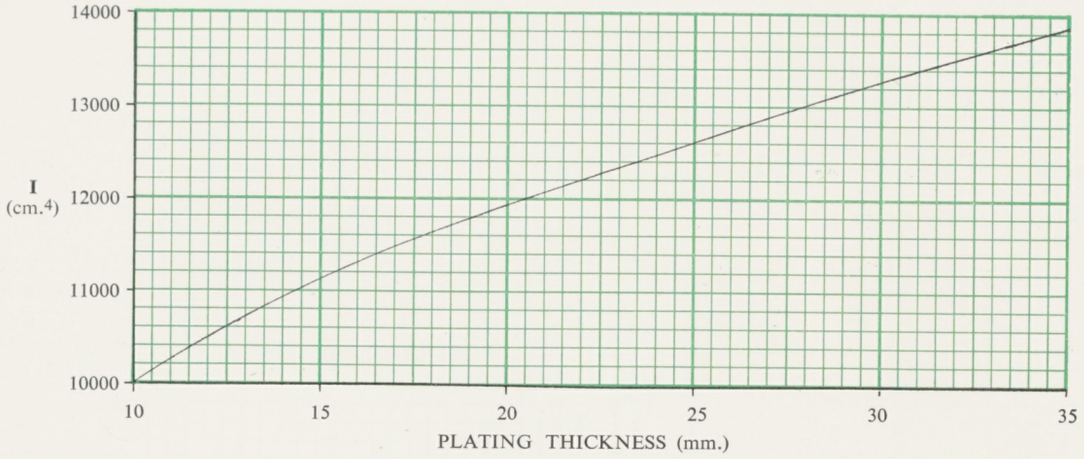
DEPTH (mm.)	WEB (mm.)	FLANGE (mm.)
250	10	80 × 12,50

MOMENT OF INERTIA OF CHANNELS

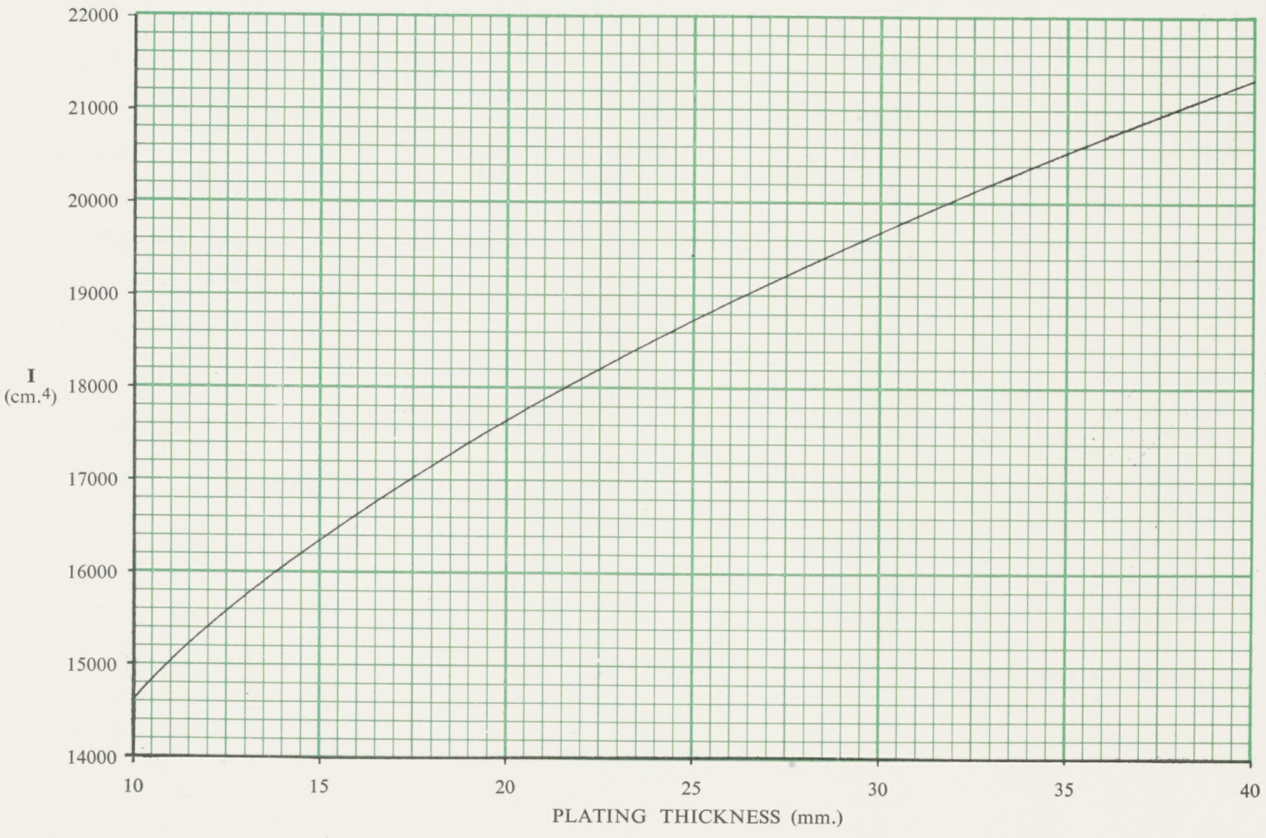
(WITH PLATING)

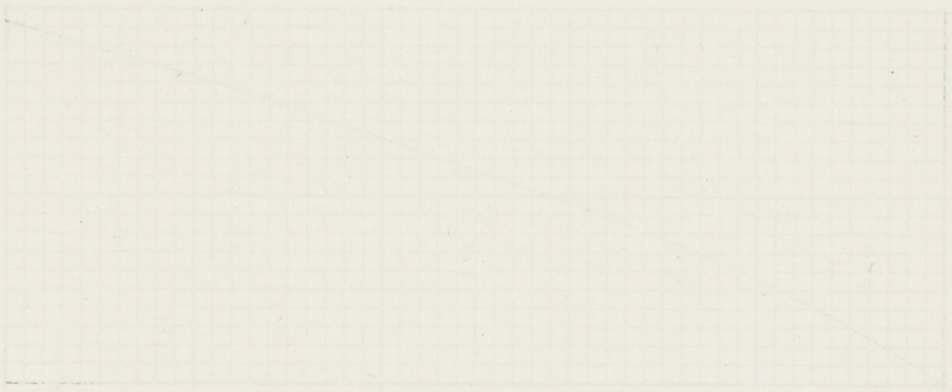


DEPTH (mm.)	WEB (mm.)	FLANGE (mm.)
250	10	100×15



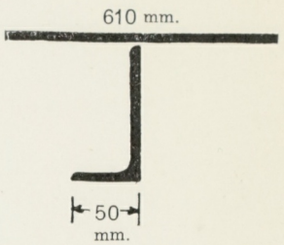
DEPTH (mm.)	WEB (mm.)	FLANGE (mm.)
300	13	90×14





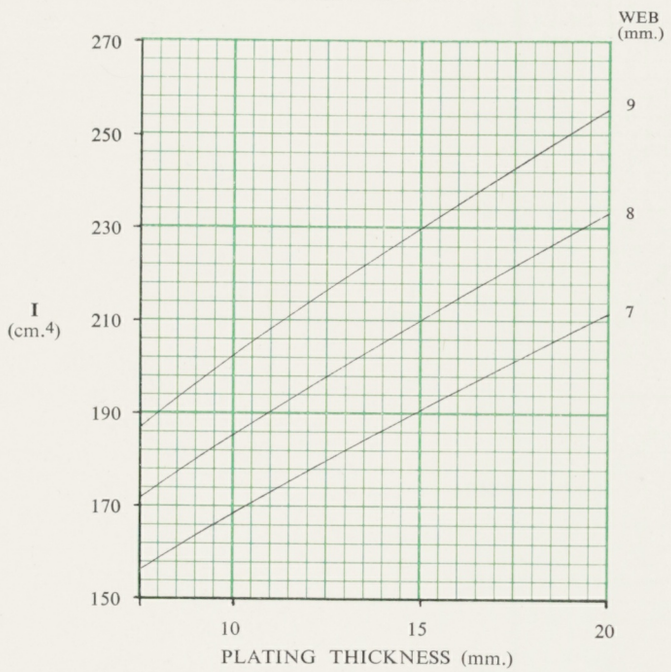
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

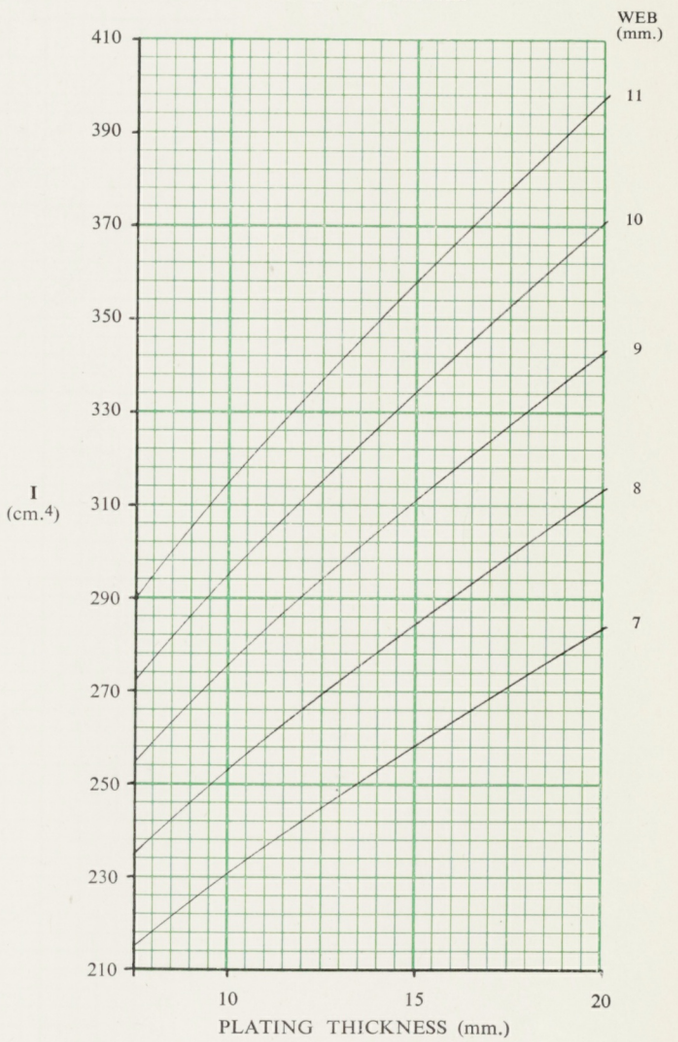


50 mm. FLANGE

60 mm. DEPTH

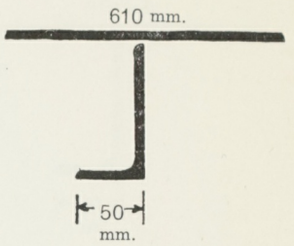


70 mm. DEPTH



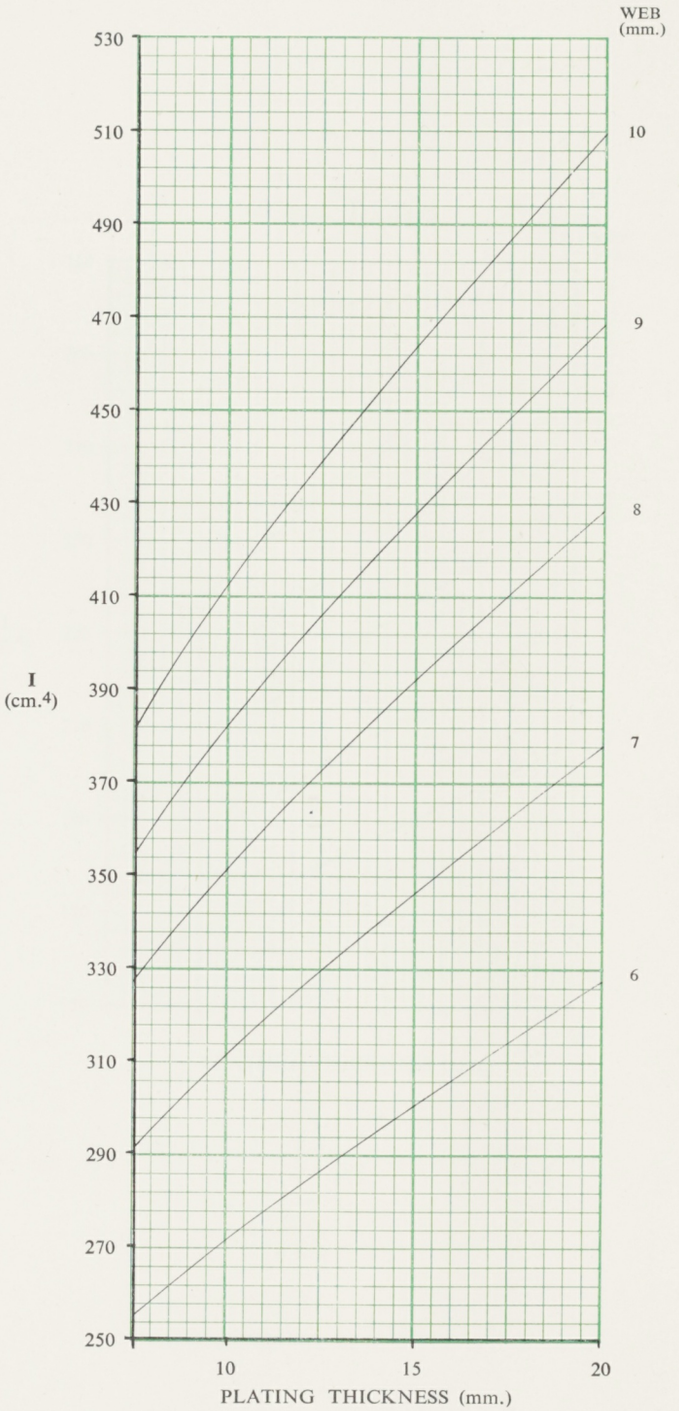
MOMENT OF INERTIA OF INVERTED ANGLES

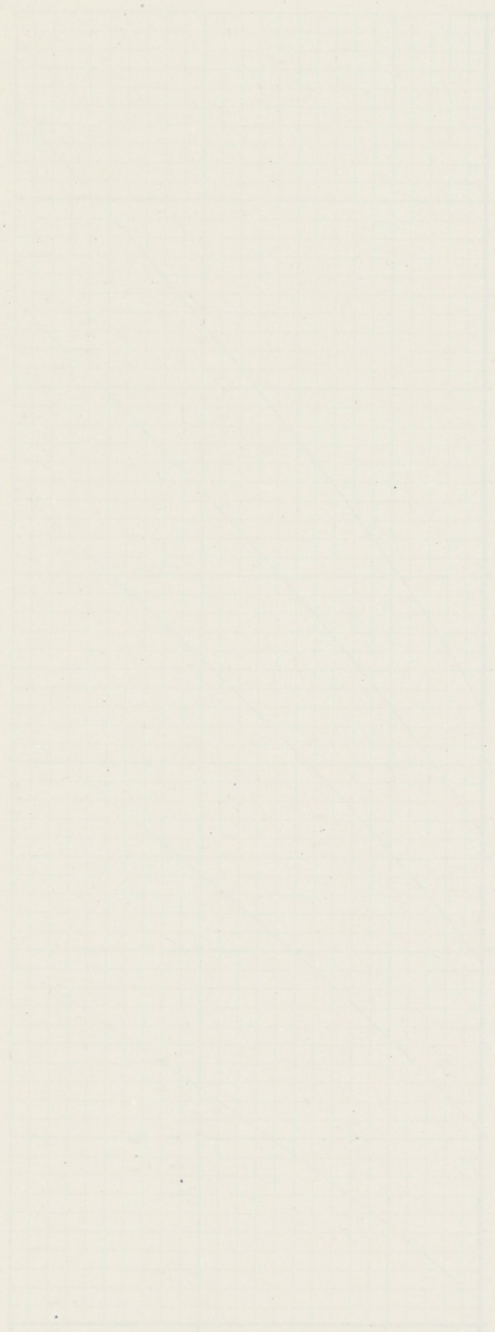
(WITH PLATING)



50 mm. FLANGE

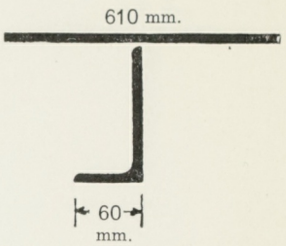
80 mm. DEPTH





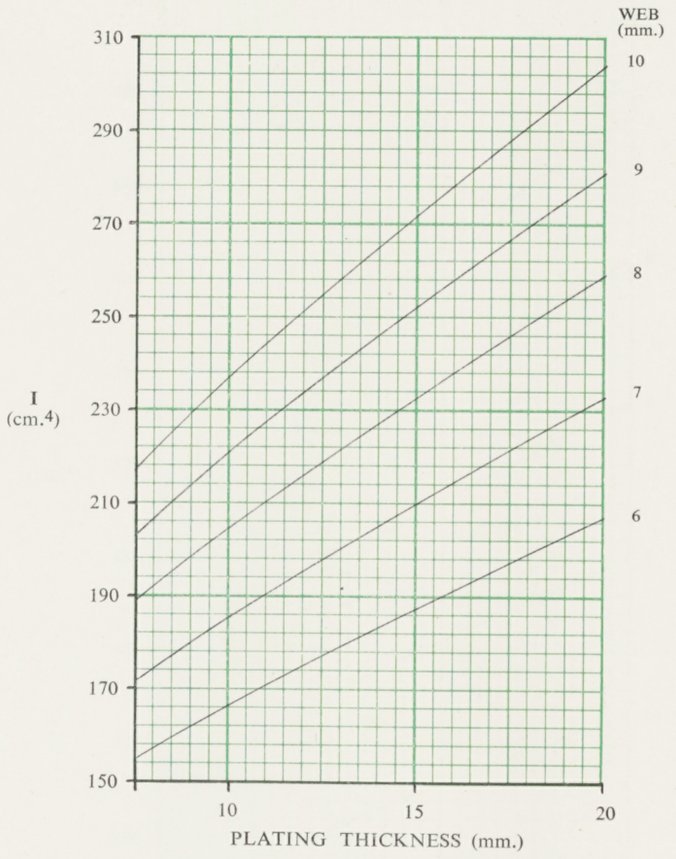
MOMENT OF INERTIA OF INVERTED ANGLES

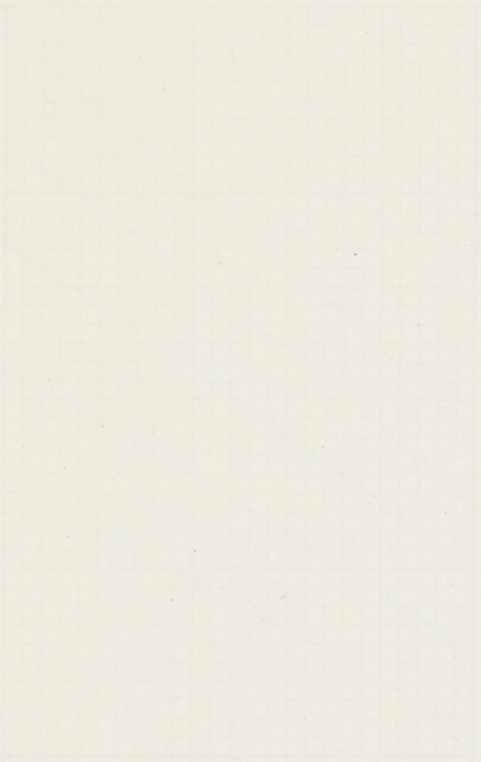
(WITH PLATING)



60 mm. FLANGE

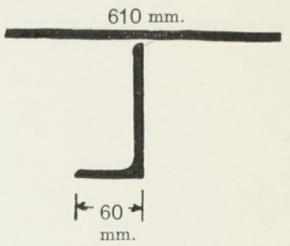
60 mm. DEPTH





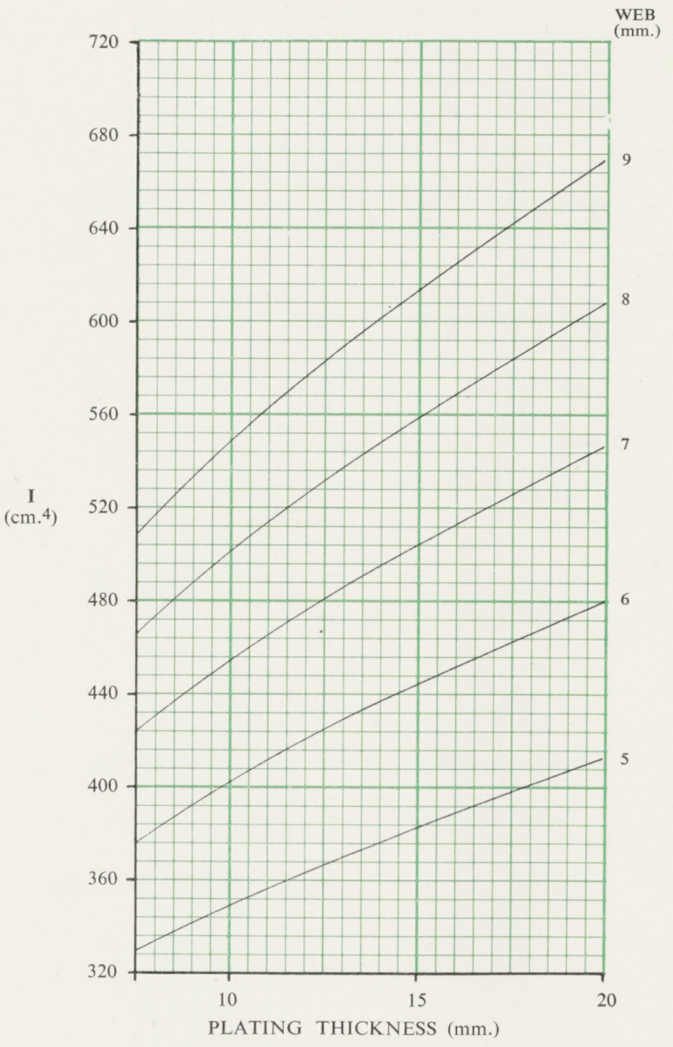
MOMENT OF INERTIA OF INVERTED ANGLES

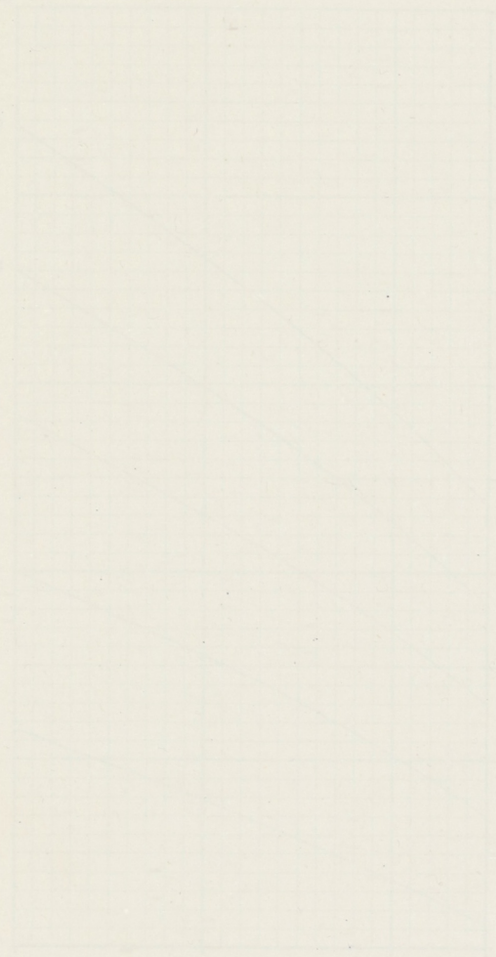
(WITH PLATING)



60 mm. FLANGE

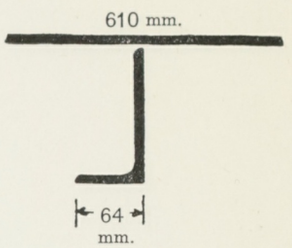
90 mm. DEPTH





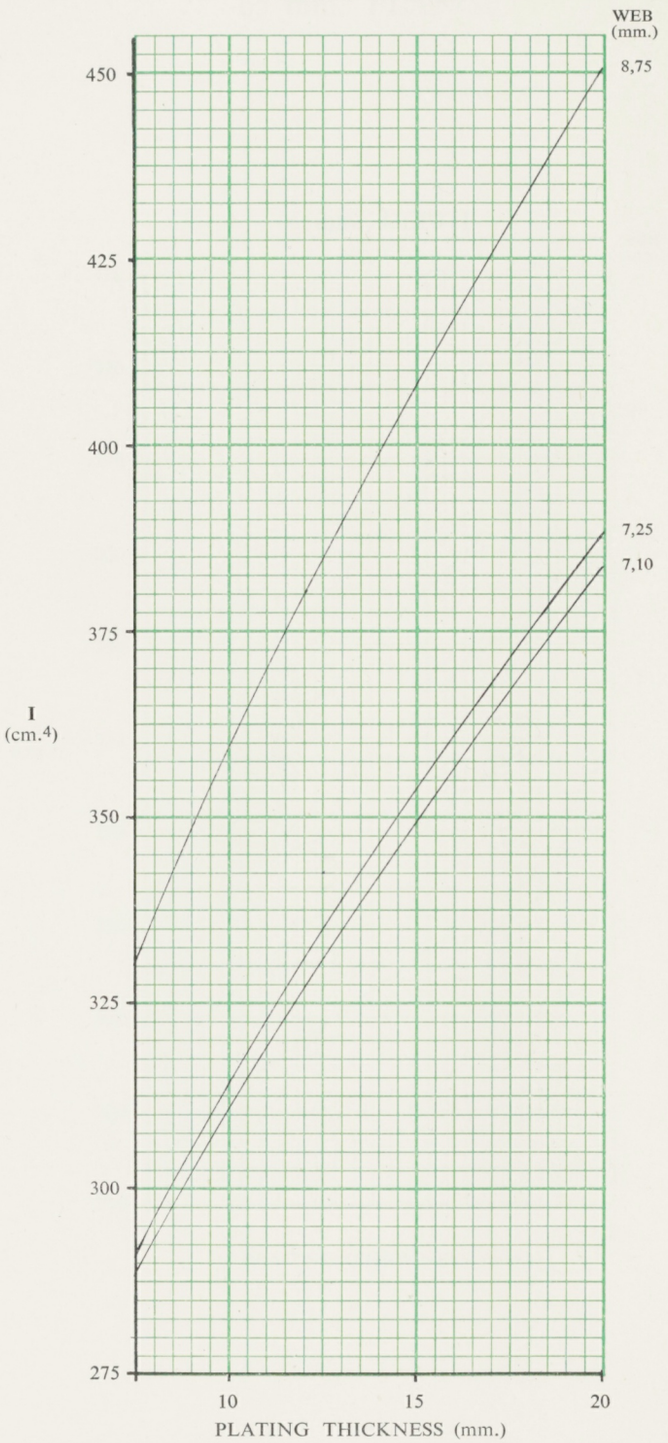
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)



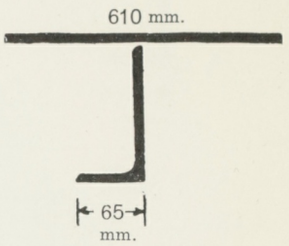
64 mm. FLANGE

76 mm. DEPTH



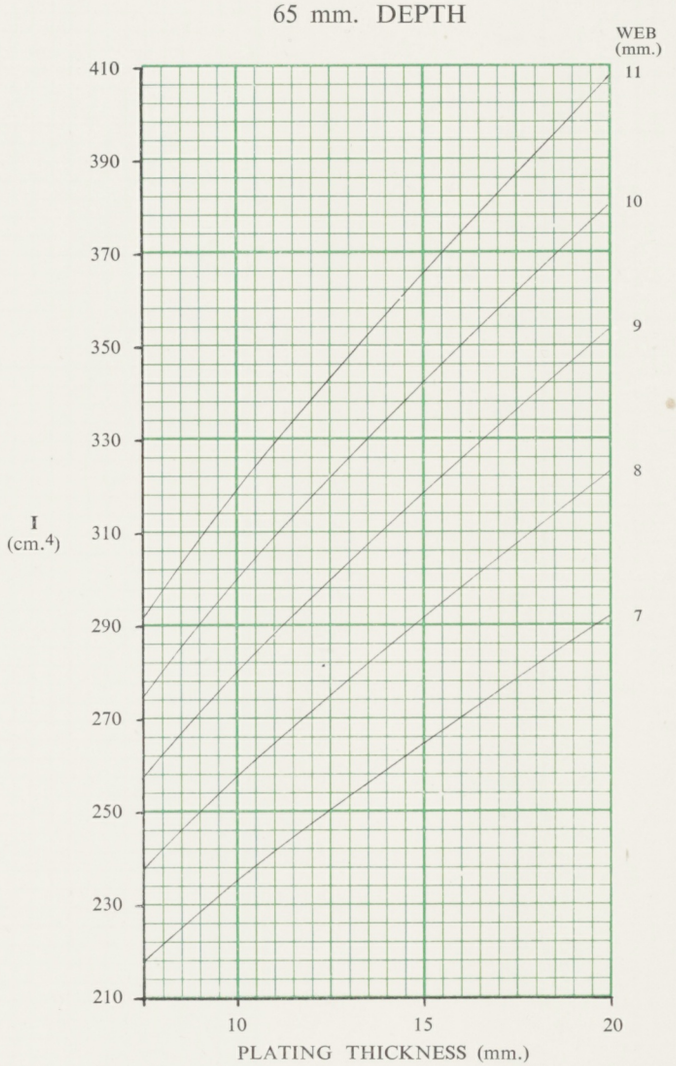
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)



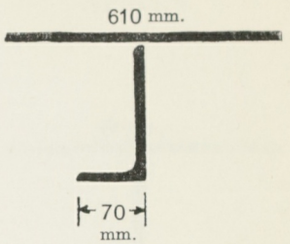
65 mm. FLANGE

65 mm. DEPTH



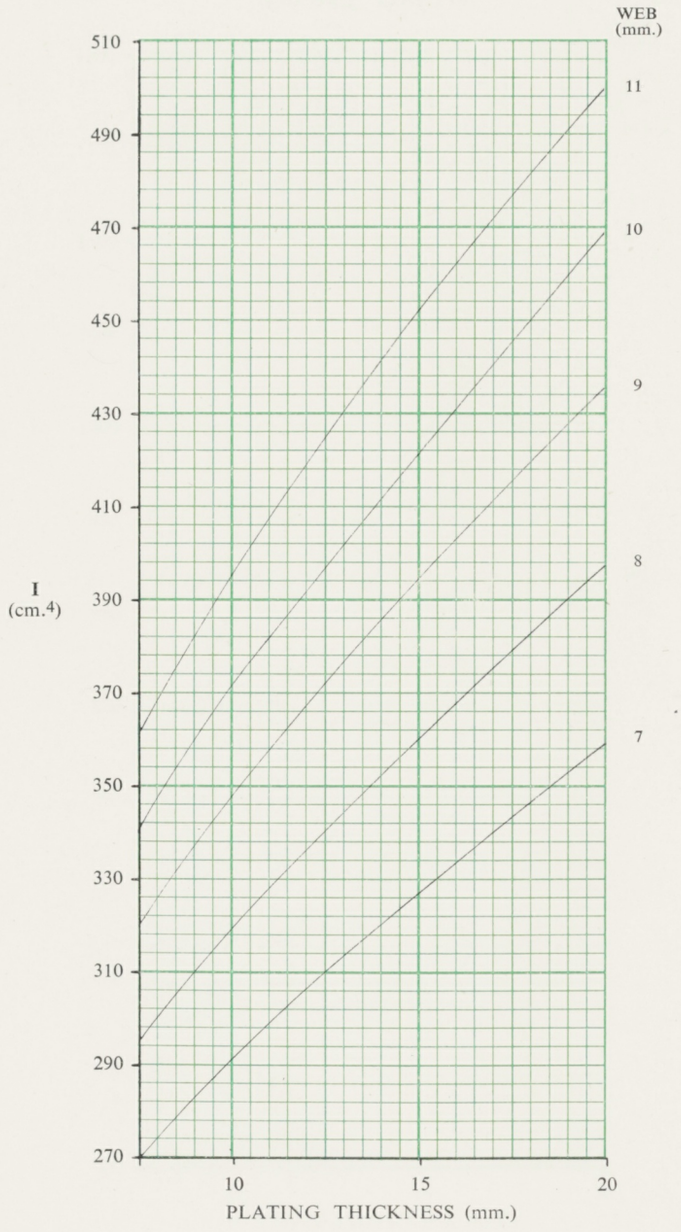
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

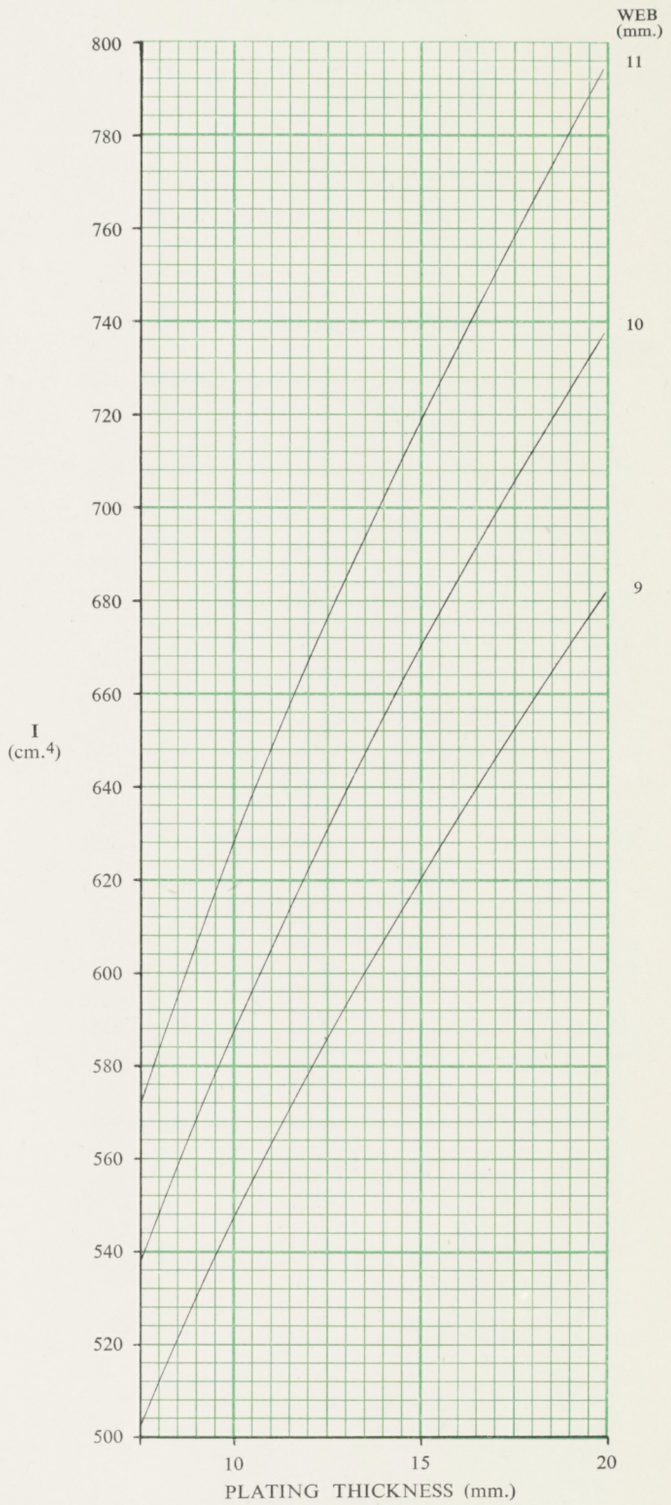


70 mm. FLANGE

70 mm. DEPTH

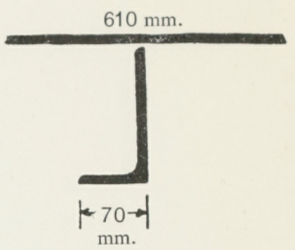


90 mm. DEPTH



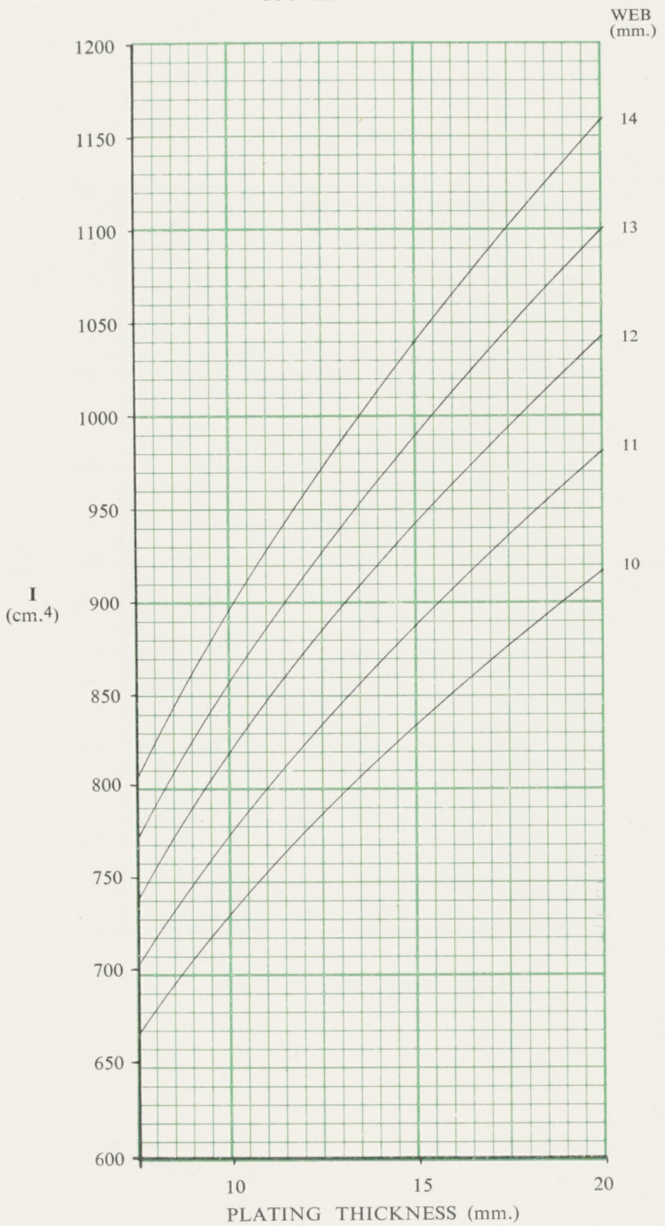
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

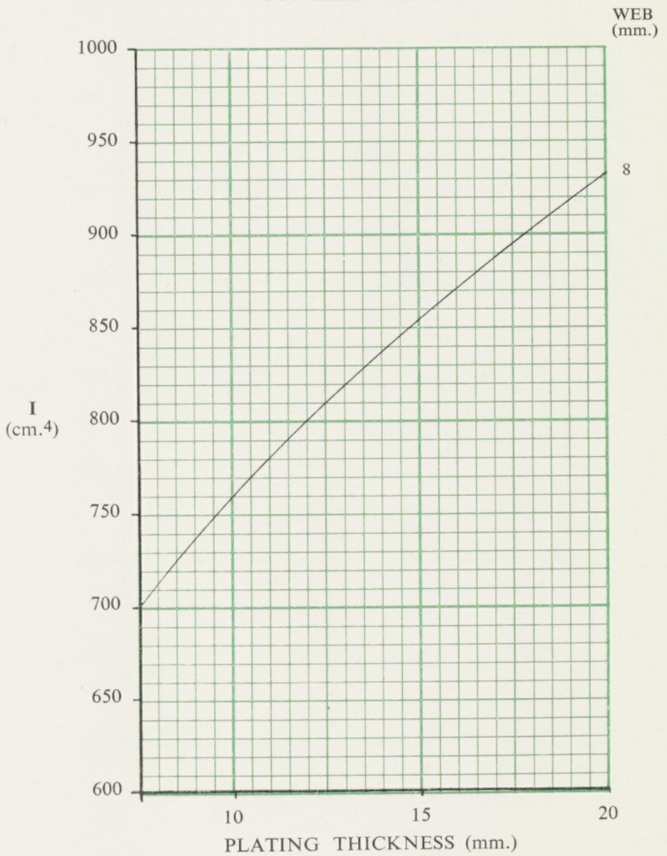


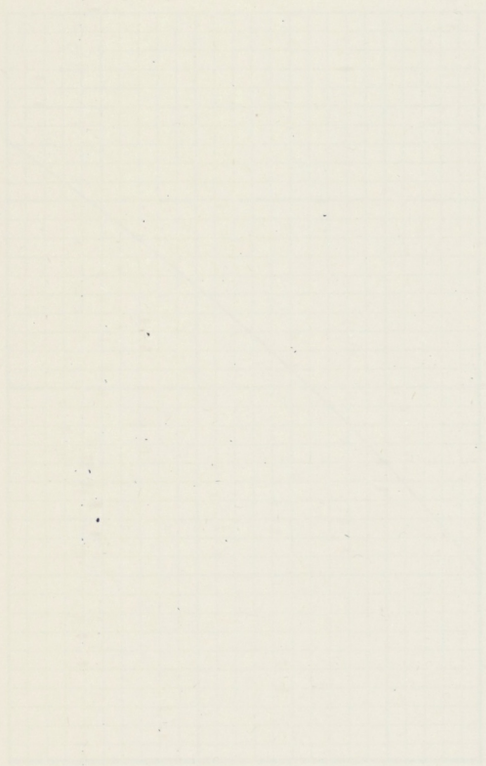
70 mm. FLANGE

100 mm. DEPTH



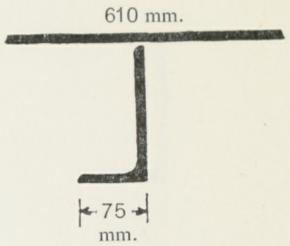
110 mm. DEPTH





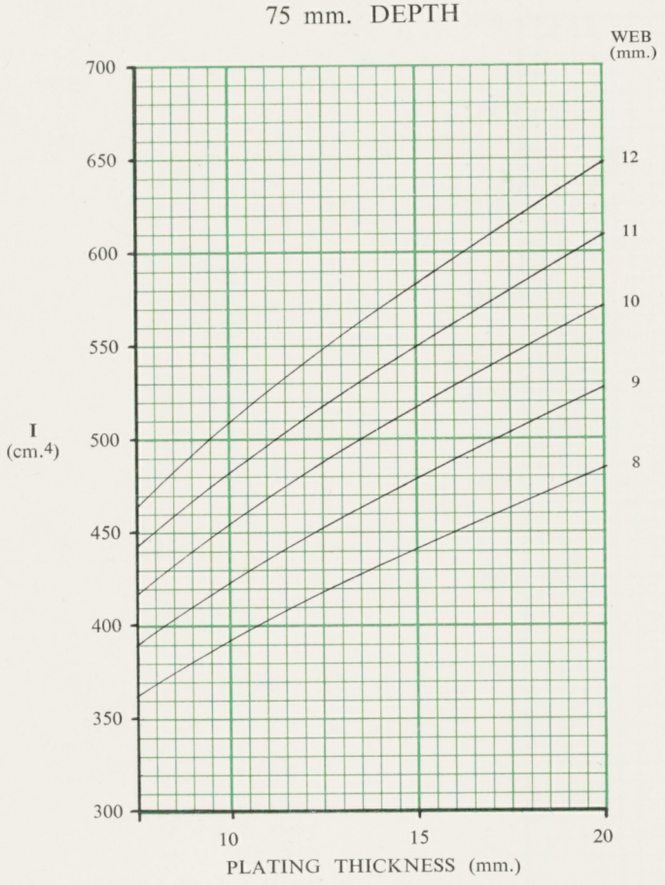
SECTION MODULUS AND AREA OF INVERTED ANGLES

(WITH PLATING)

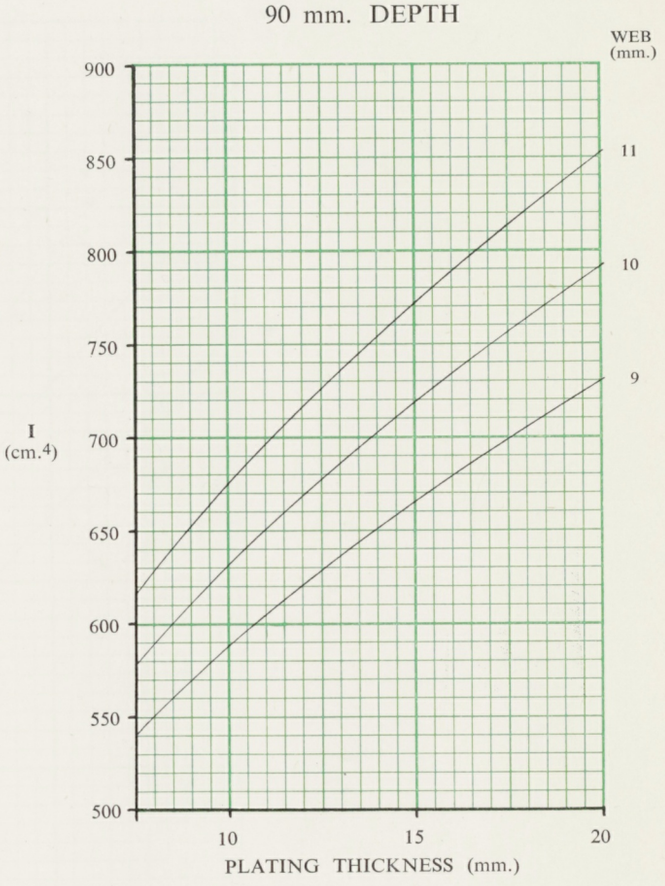


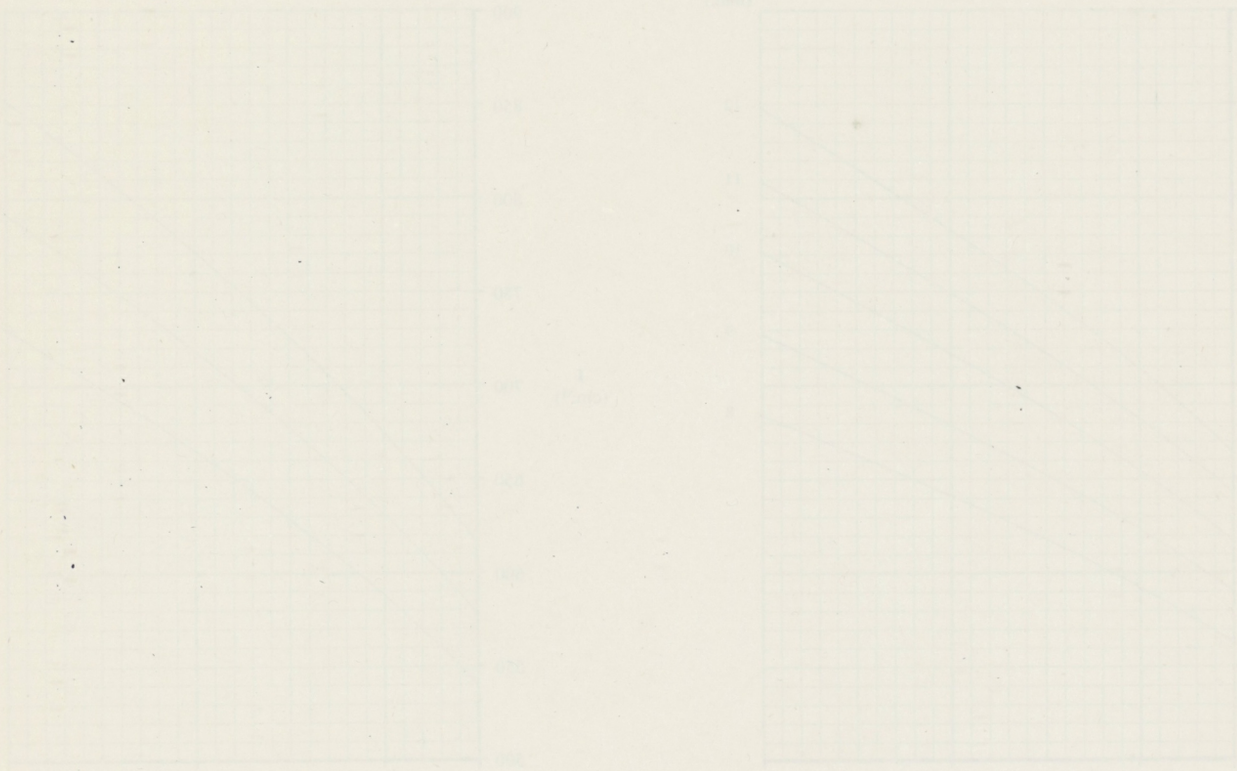
75 mm. FLANGE

75 mm. DEPTH



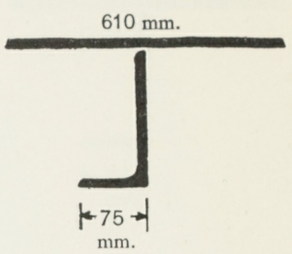
90 mm. DEPTH





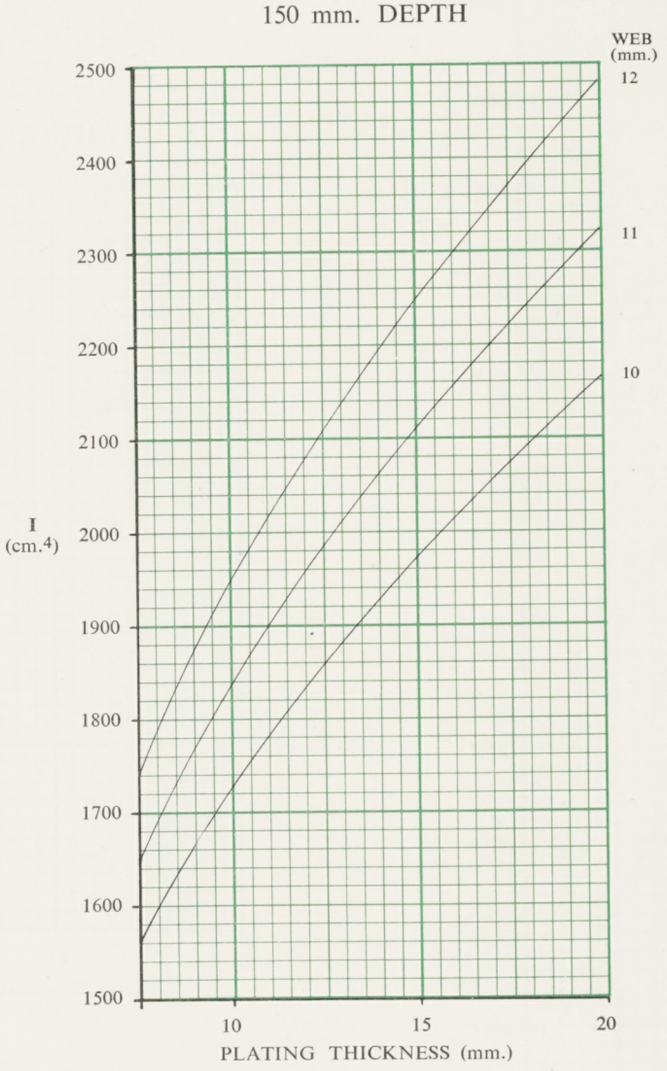
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)



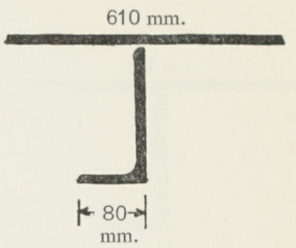
75 mm. FLANGE

150 mm. DEPTH



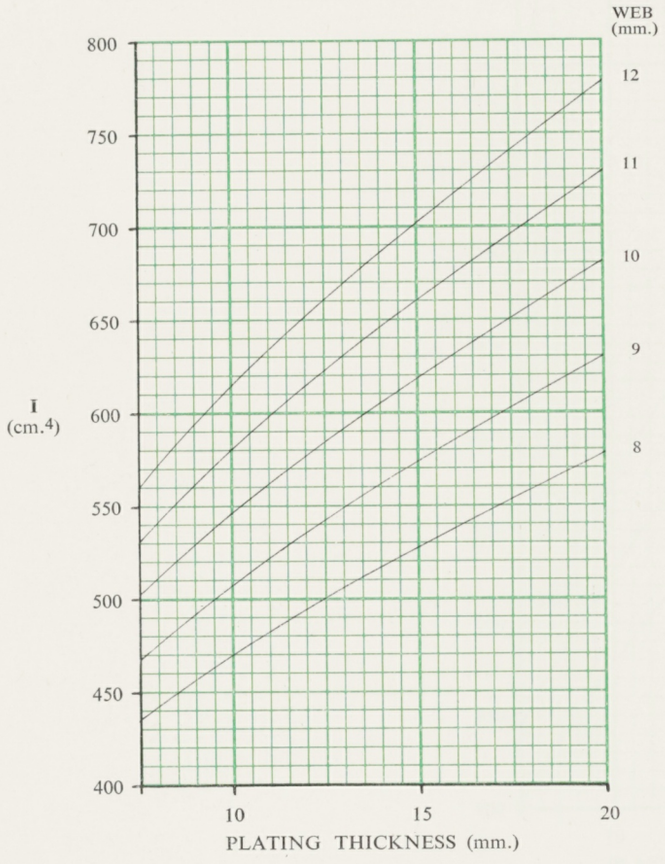
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

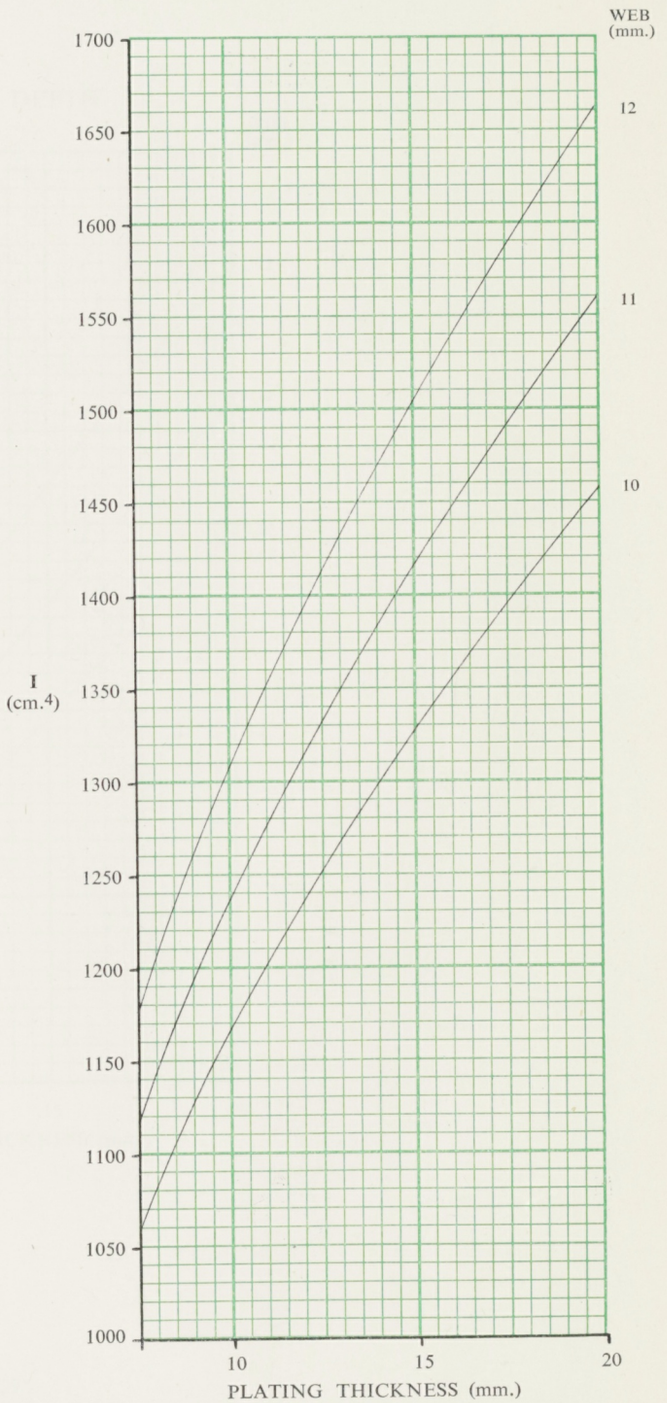


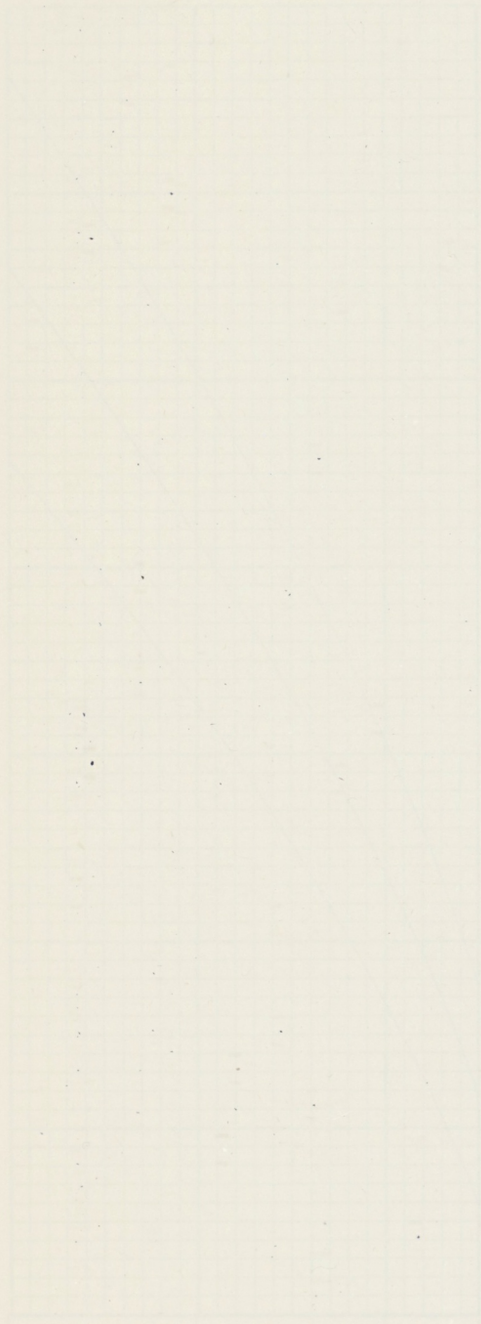
80 mm. FLANGE

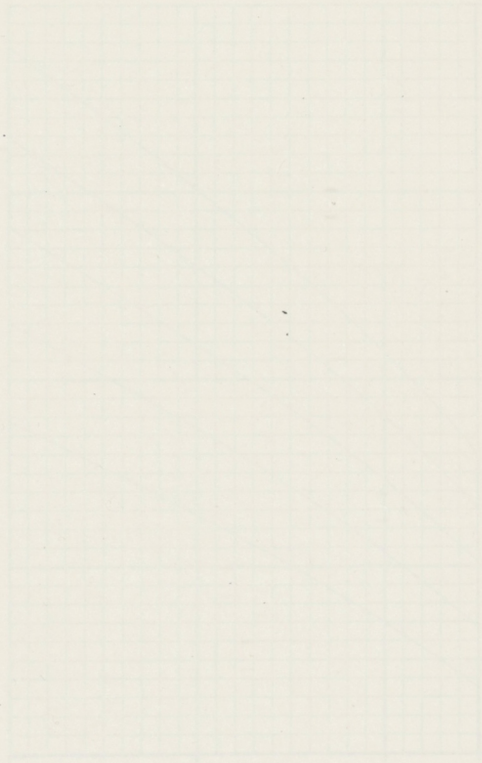
80 mm. DEPTH



120 mm. DEPTH

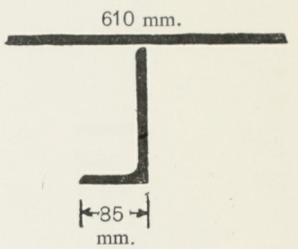






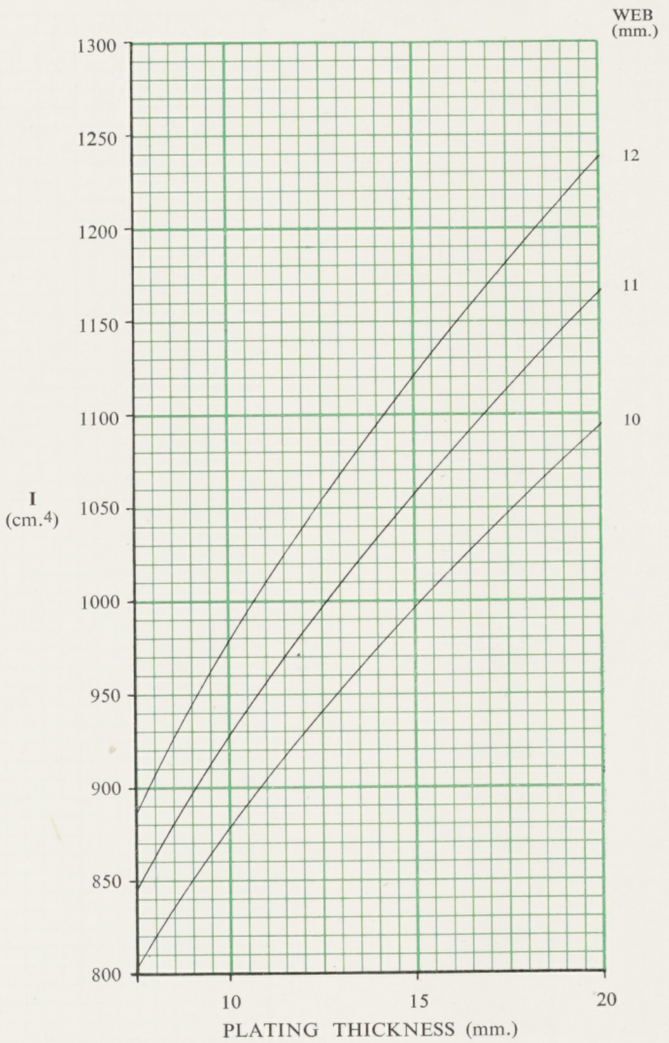
MOMENT OF INERTIA OF INVERTED ANGLES

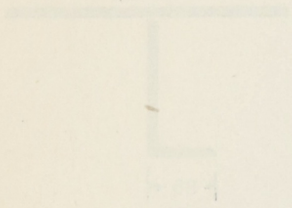
(WITH PLATING)



85 mm. FLANGE

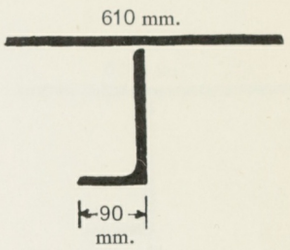
100 mm. DEPTH





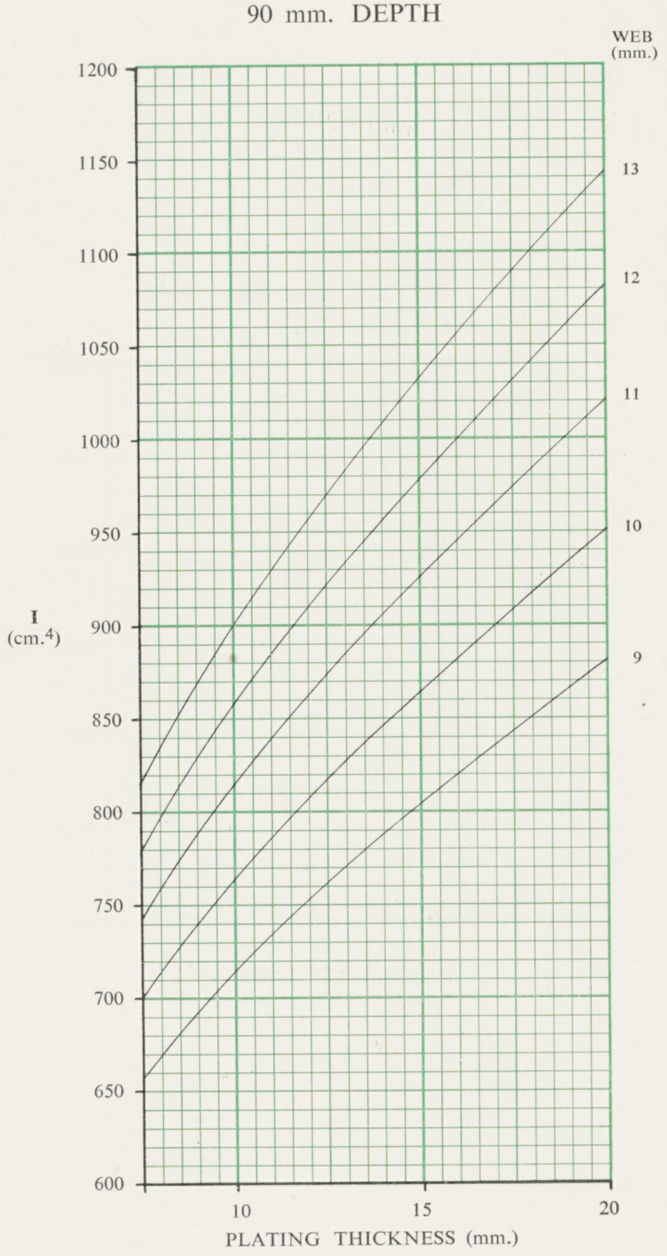
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

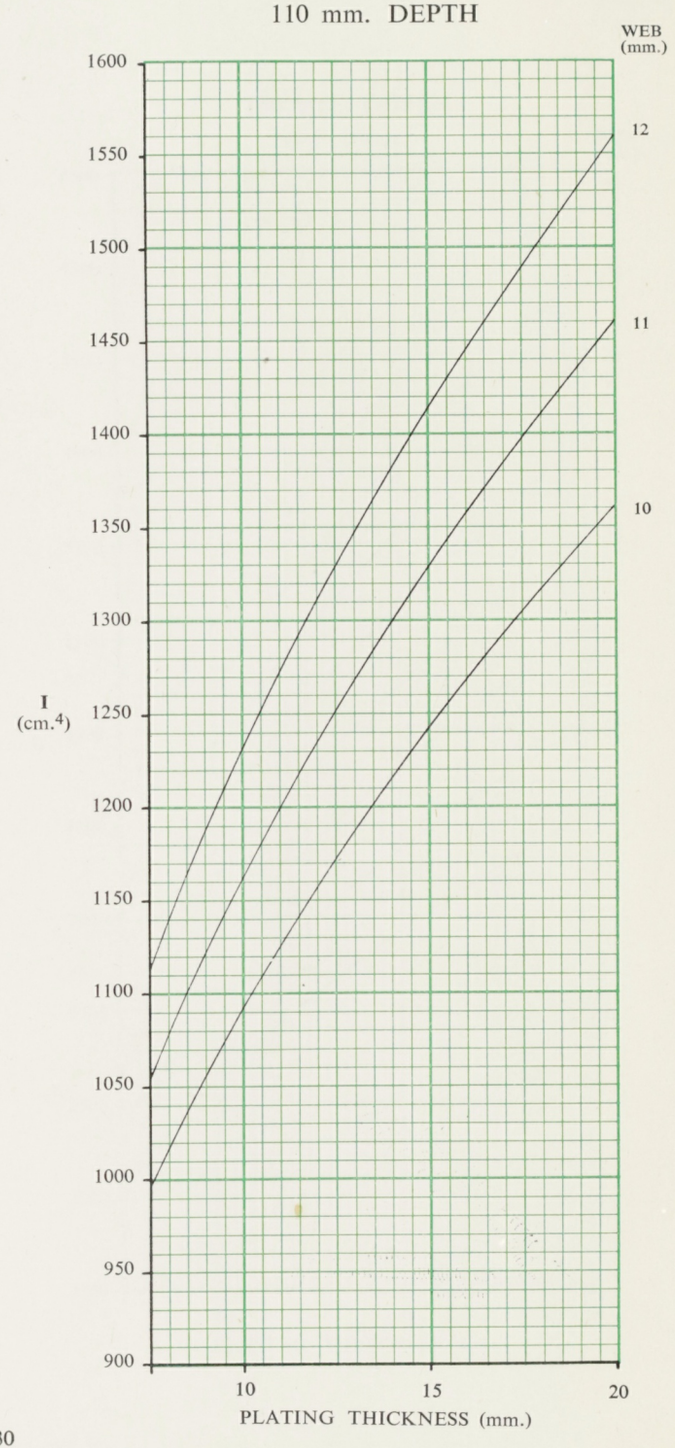


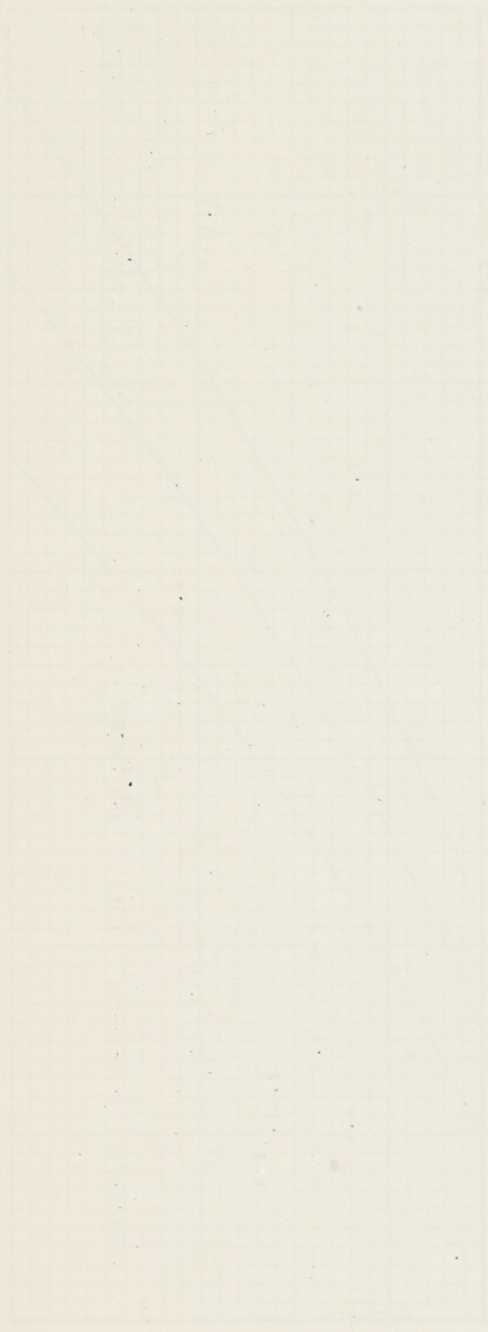
90 mm. FLANGE

90 mm. DEPTH



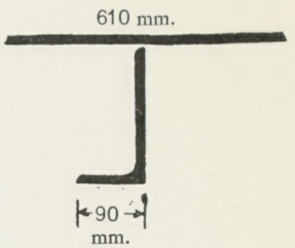
110 mm. DEPTH





MOMENT OF INERTIA OF INVERTED ANGLES

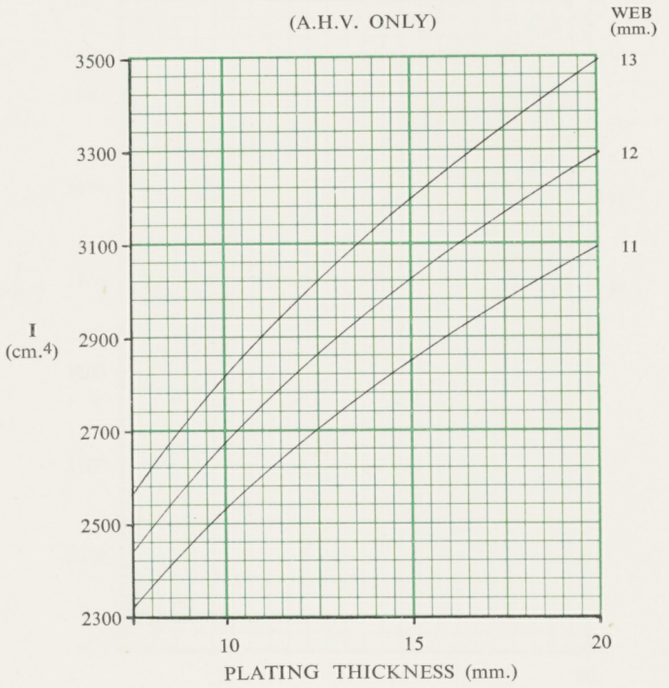
(WITH PLATING)



90 mm. FLANGE

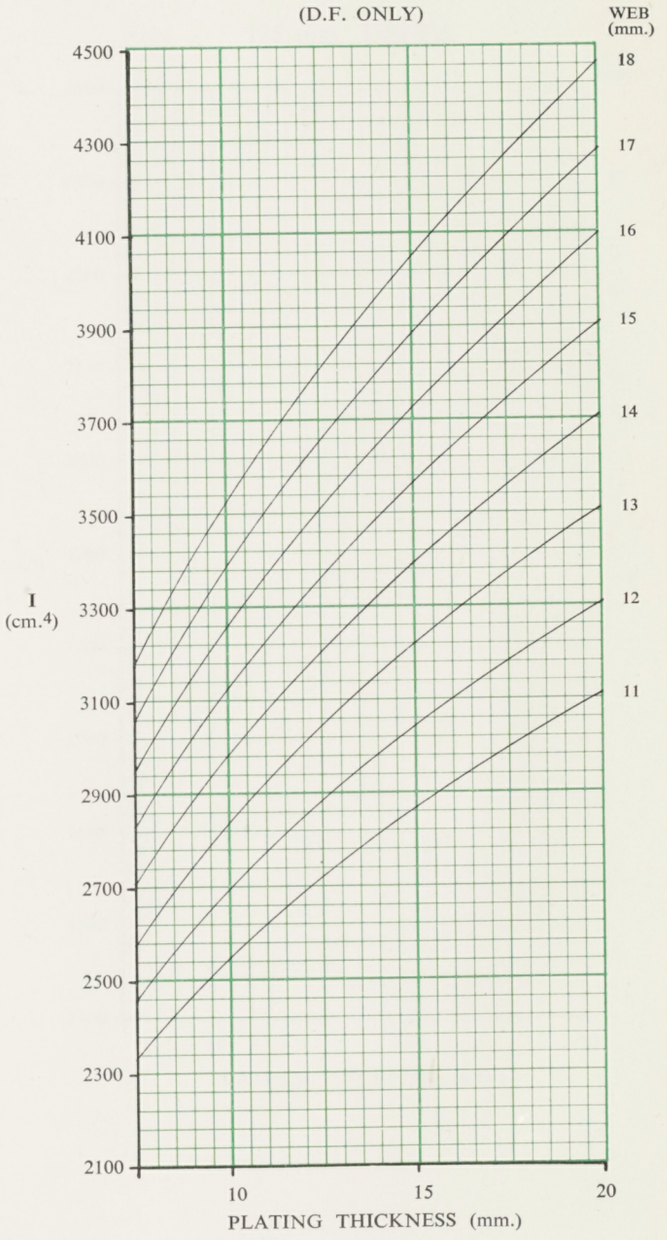
150 mm. DEPTH

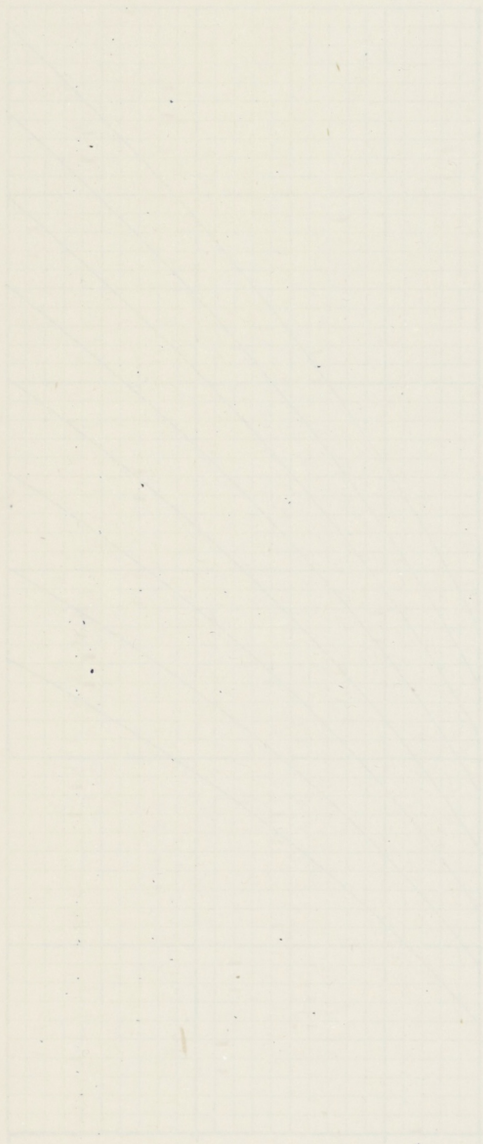
(A.H.V. ONLY)

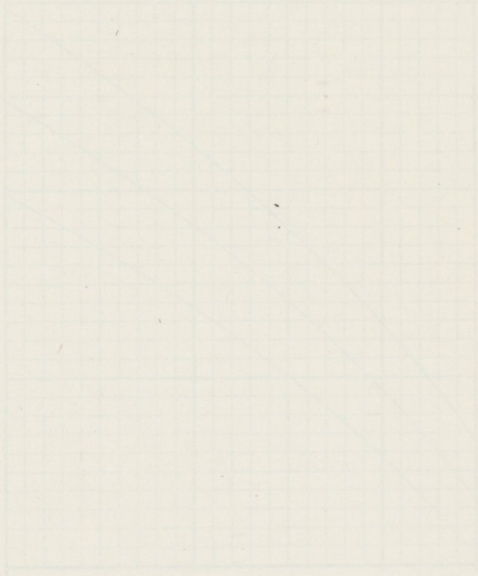


150 mm. DEPTH

(D.F. ONLY)

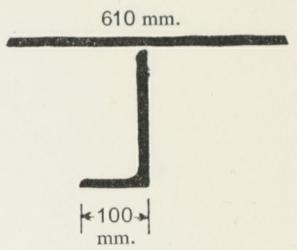






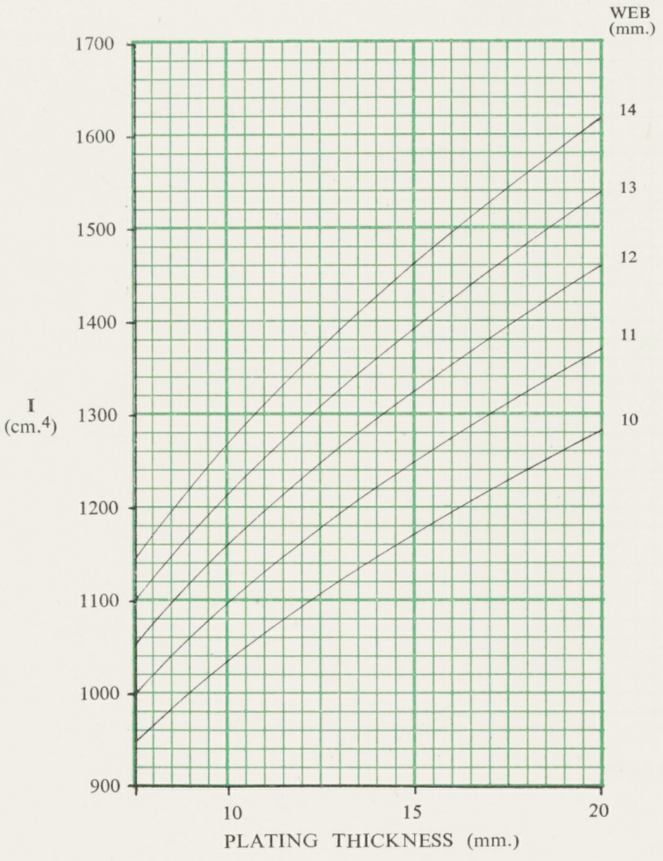
MOMENT OF INERTIA OF INVERTED ANGLES

(WITH PLATING)

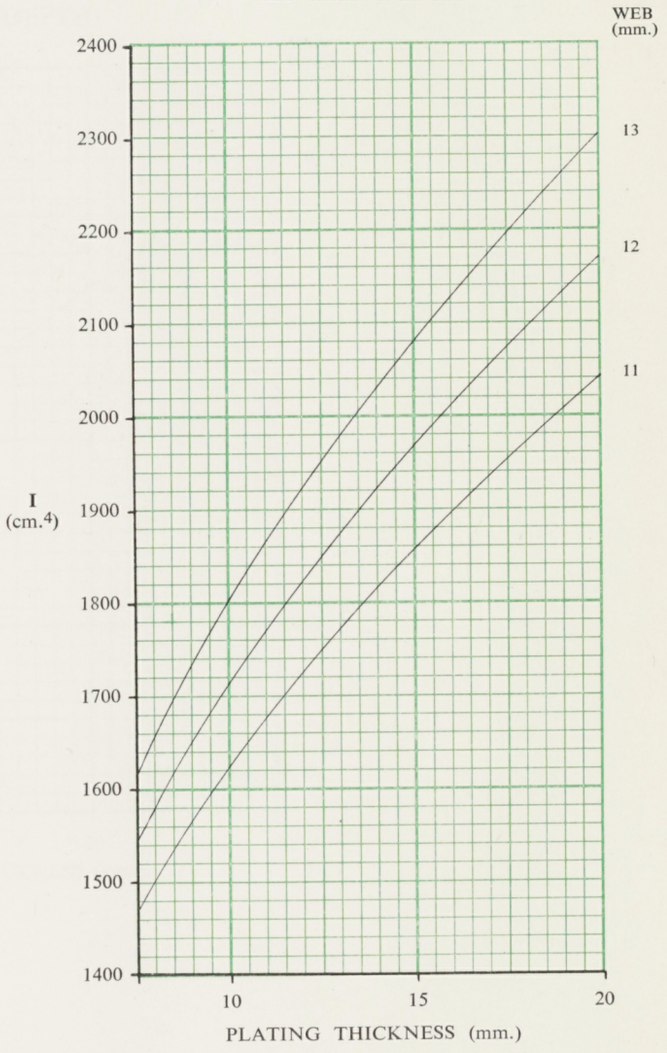


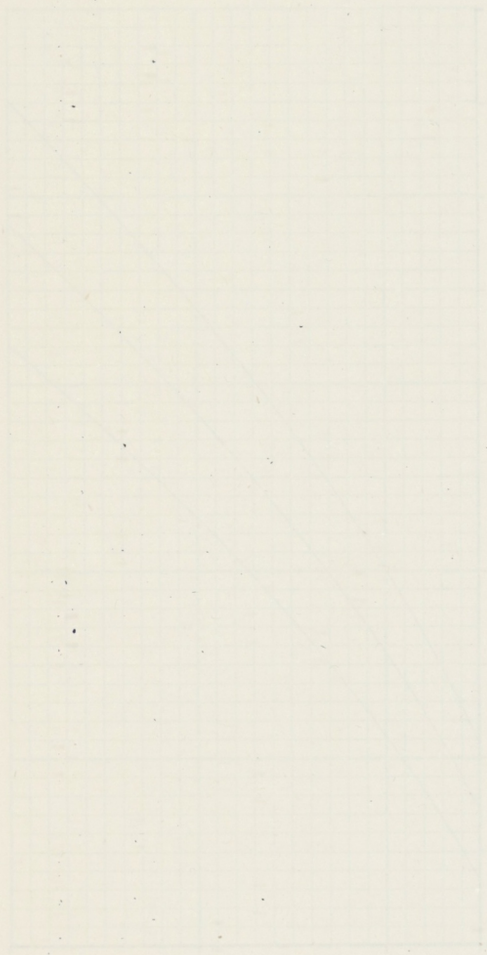
100 mm. FLANGE

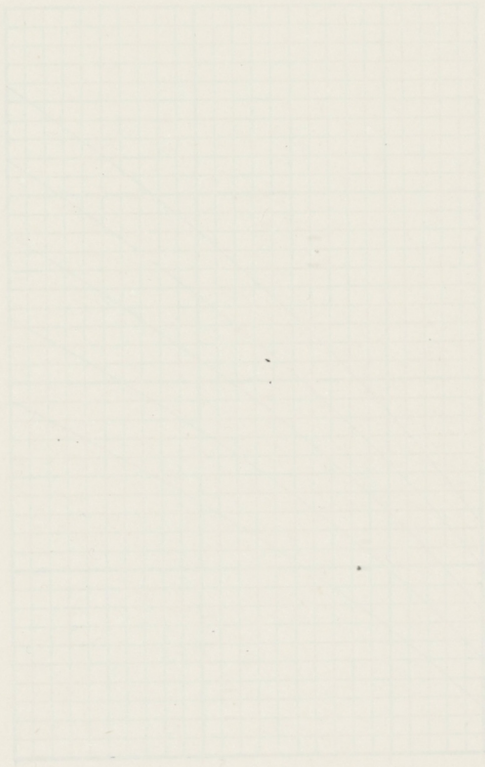
100 mm. DEPTH



125 mm. DEPTH

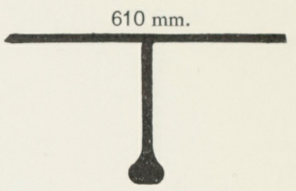




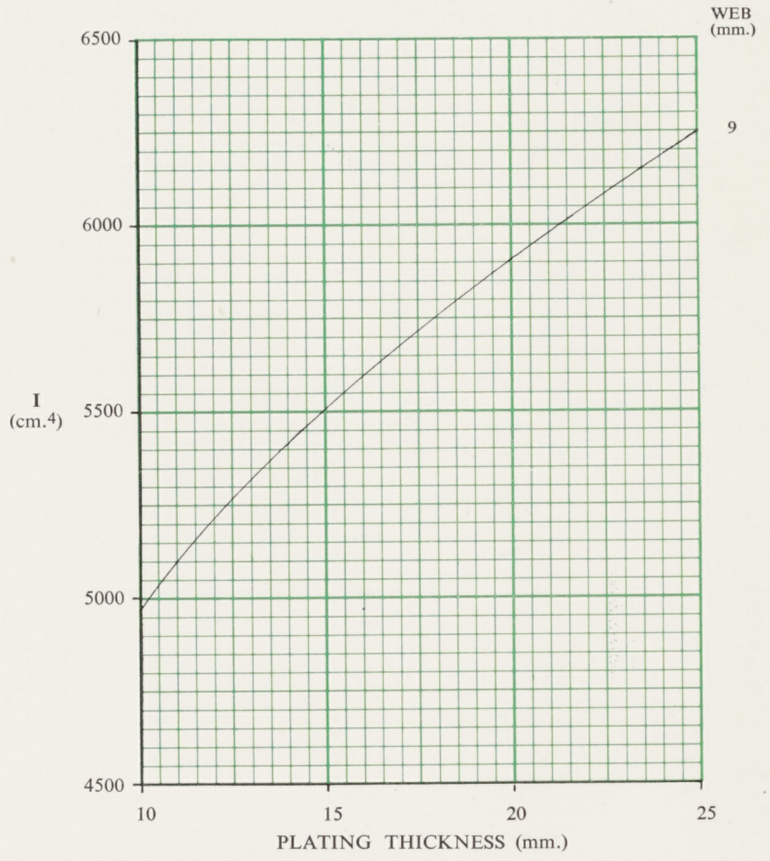


MOMENT OF INERTIA OF DOUBLE-SIDED BULB PLATES

(WITH PLATING)

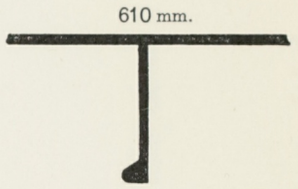


229 mm. DEPTH

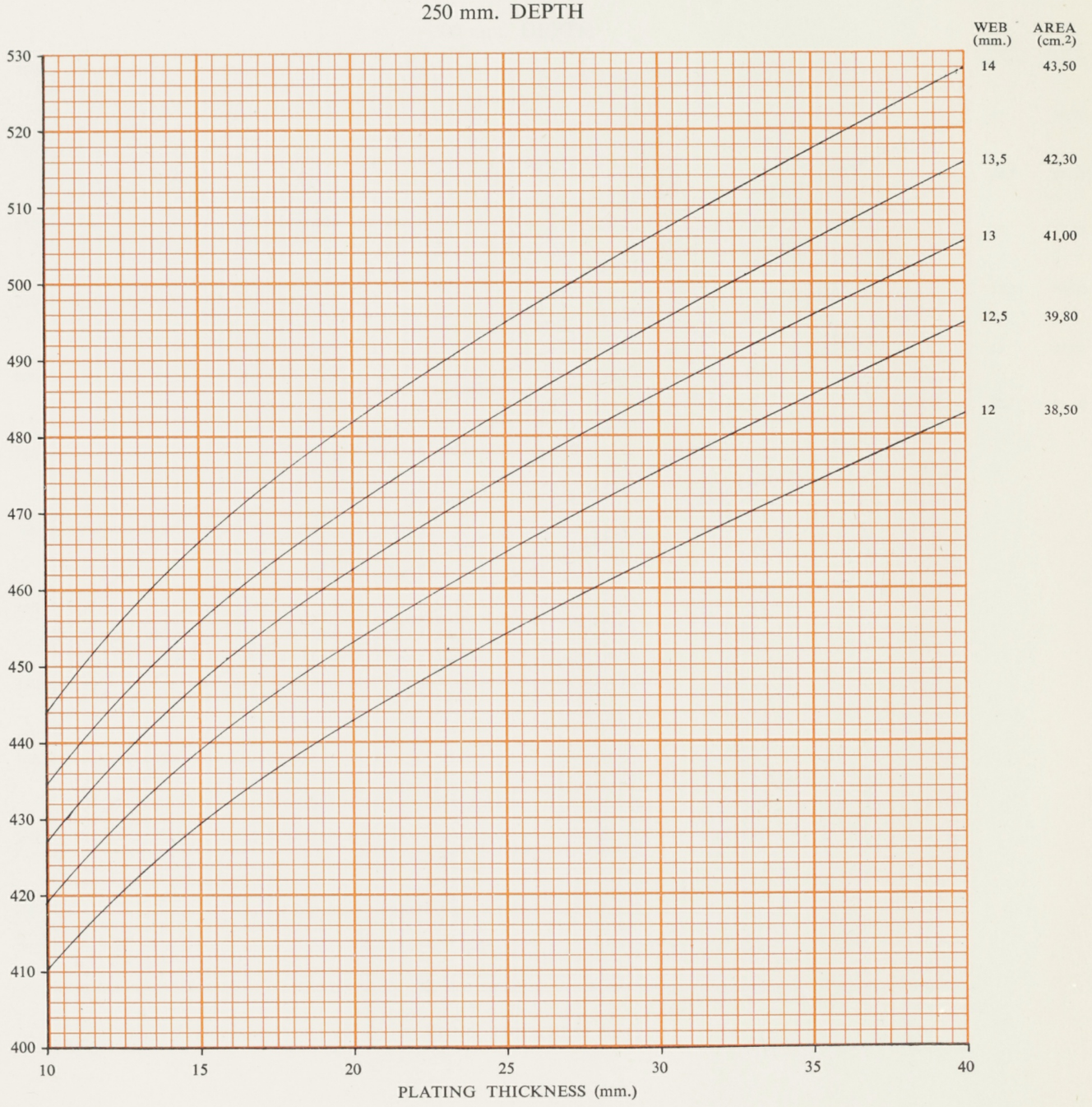


SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

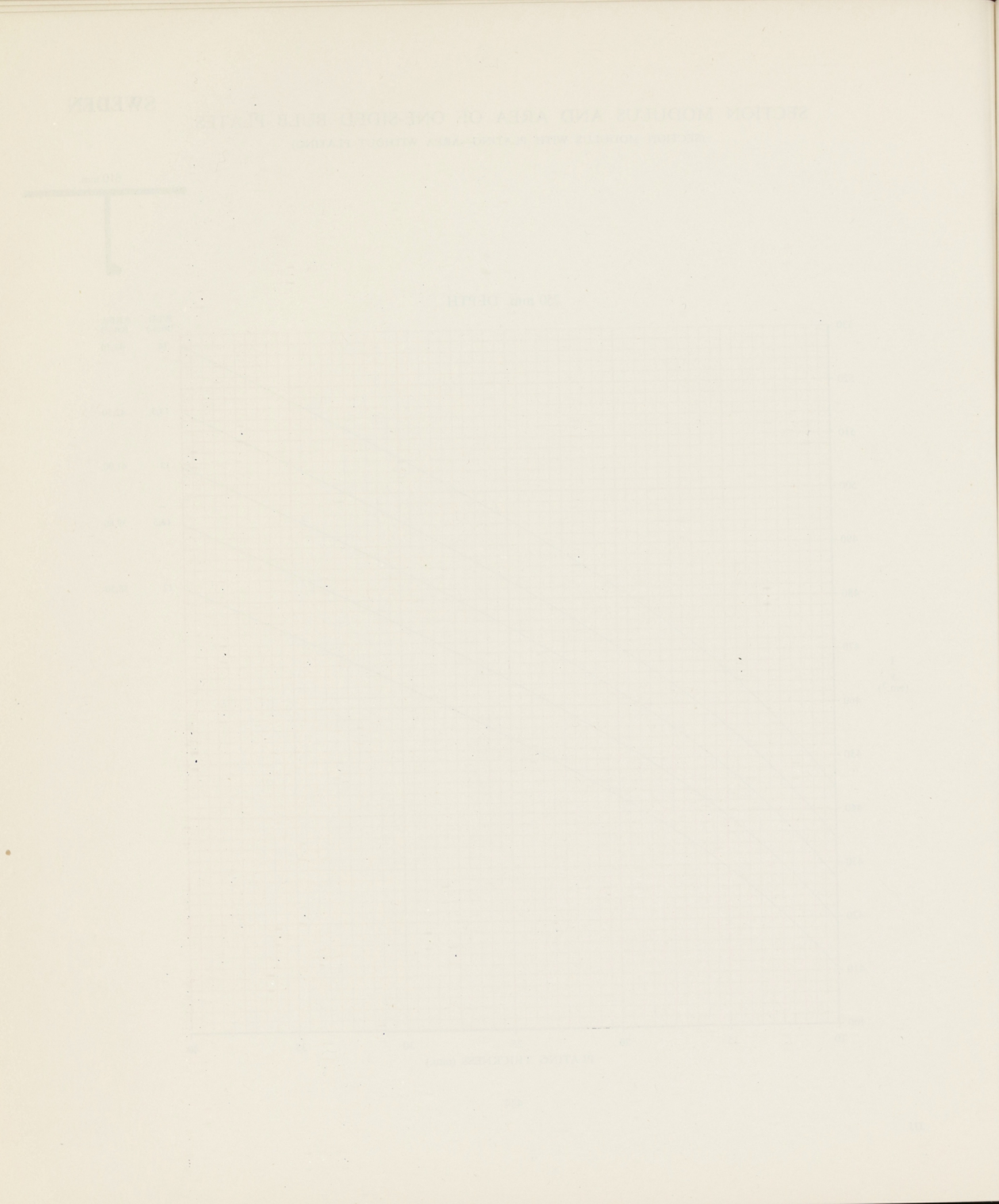
(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



250 mm. DEPTH

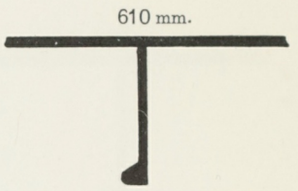


JJJ

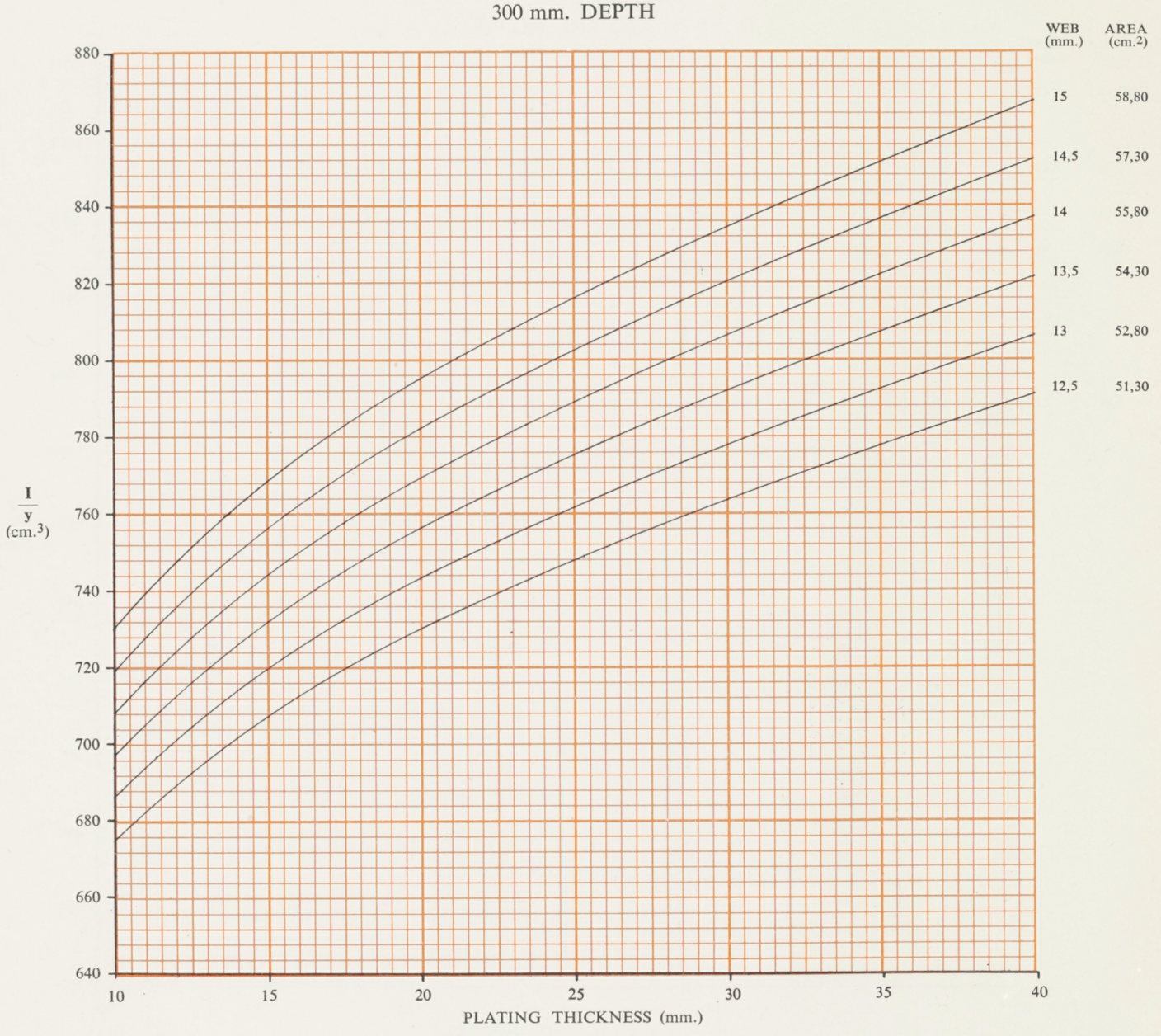


SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

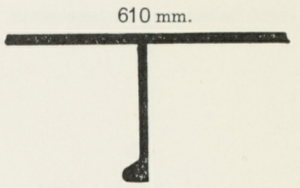


300 mm. DEPTH

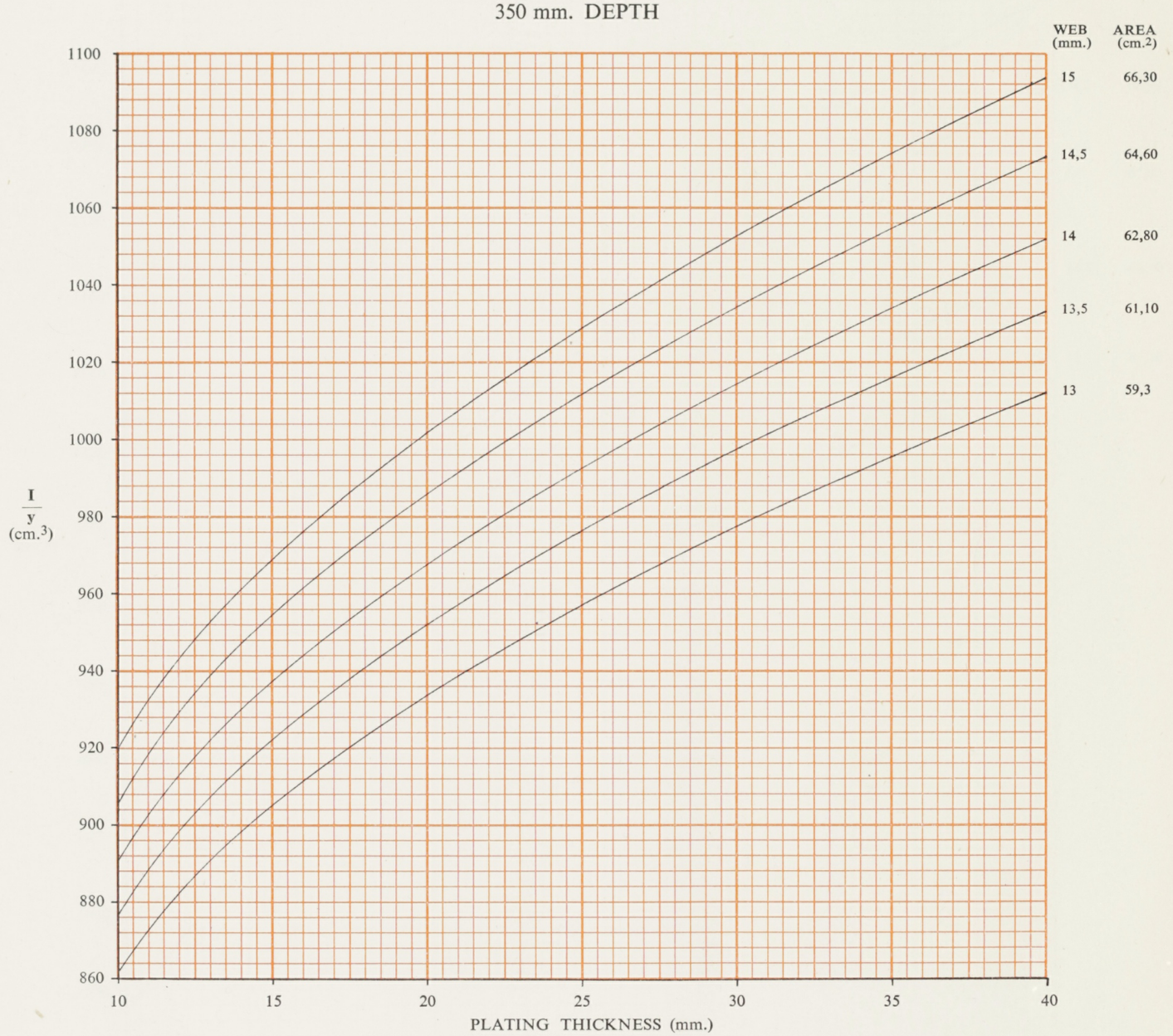


SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

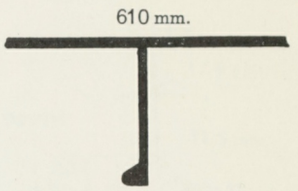


350 mm. DEPTH

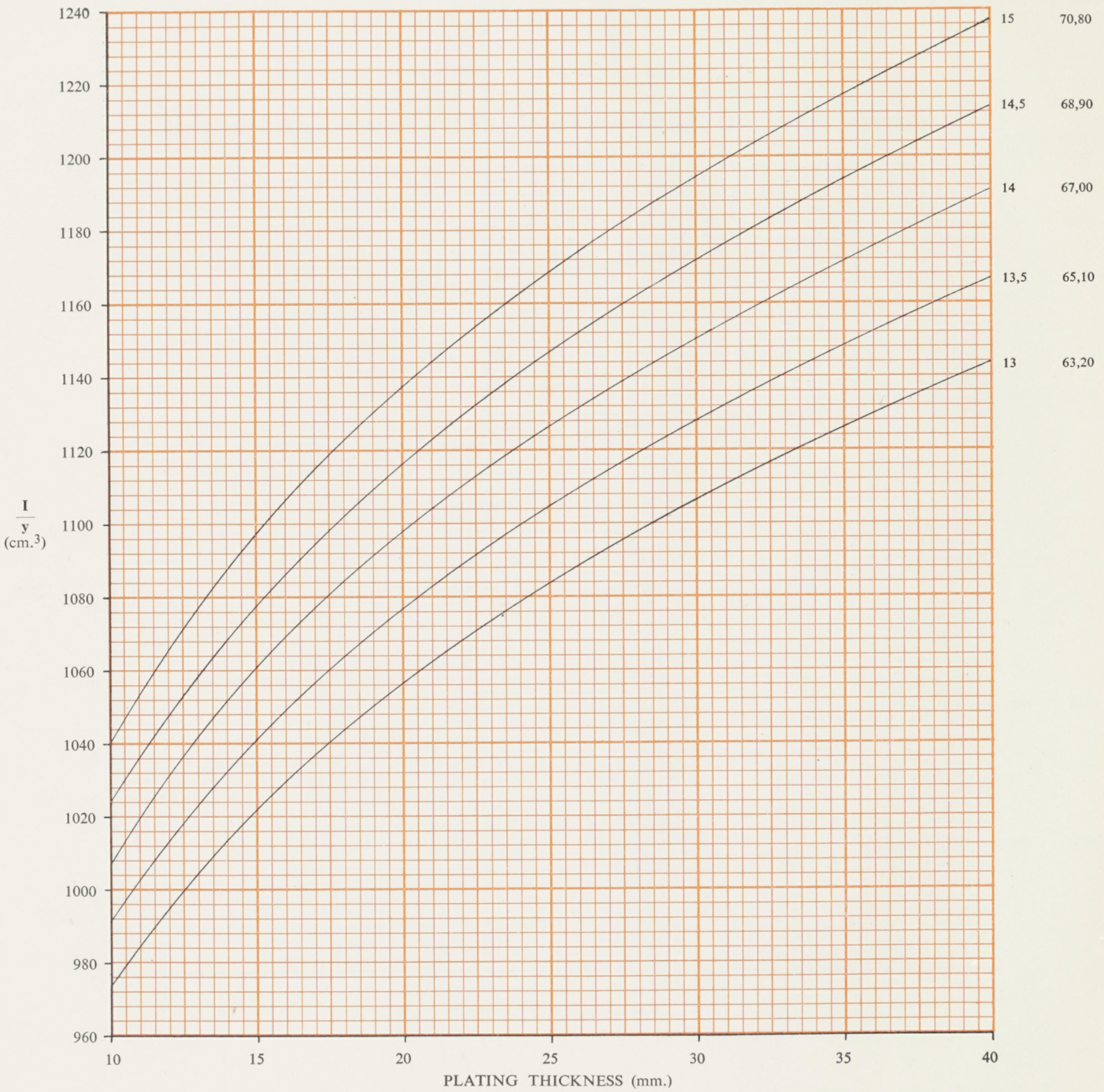


SECTION MODULUS AND AREA OF ONE-SIDED BULB PLATES

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

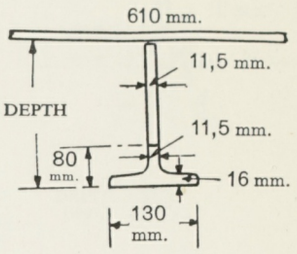


380 mm. DEPTH

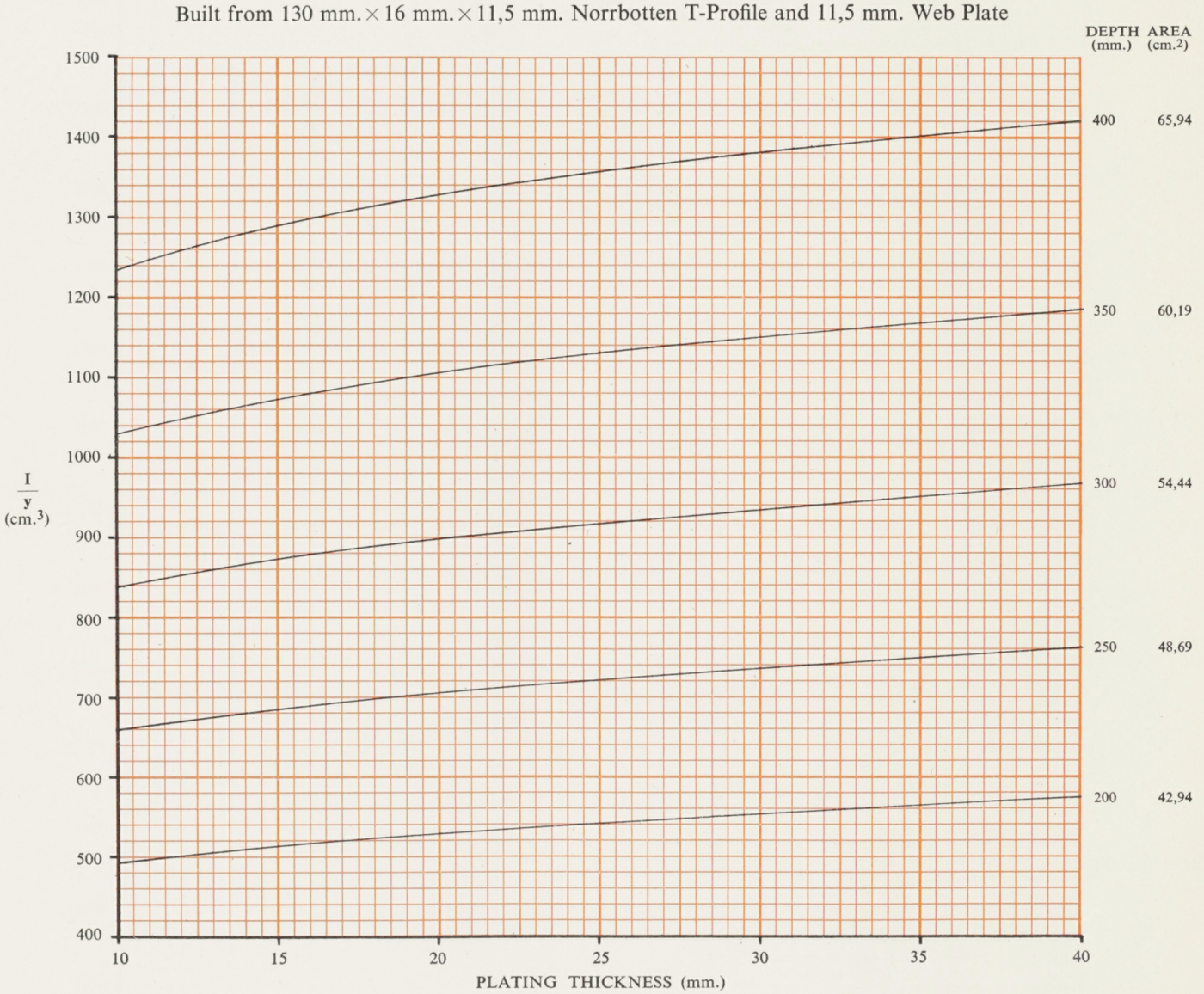


SECTION MODULUS AND AREA OF T-SECTIONS (NORRBOTTEN)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

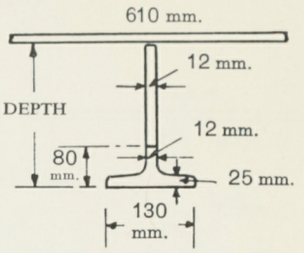


Built from 130 mm. × 16 mm. × 11,5 mm. Norrbotten T-Profile and 11,5 mm. Web Plate

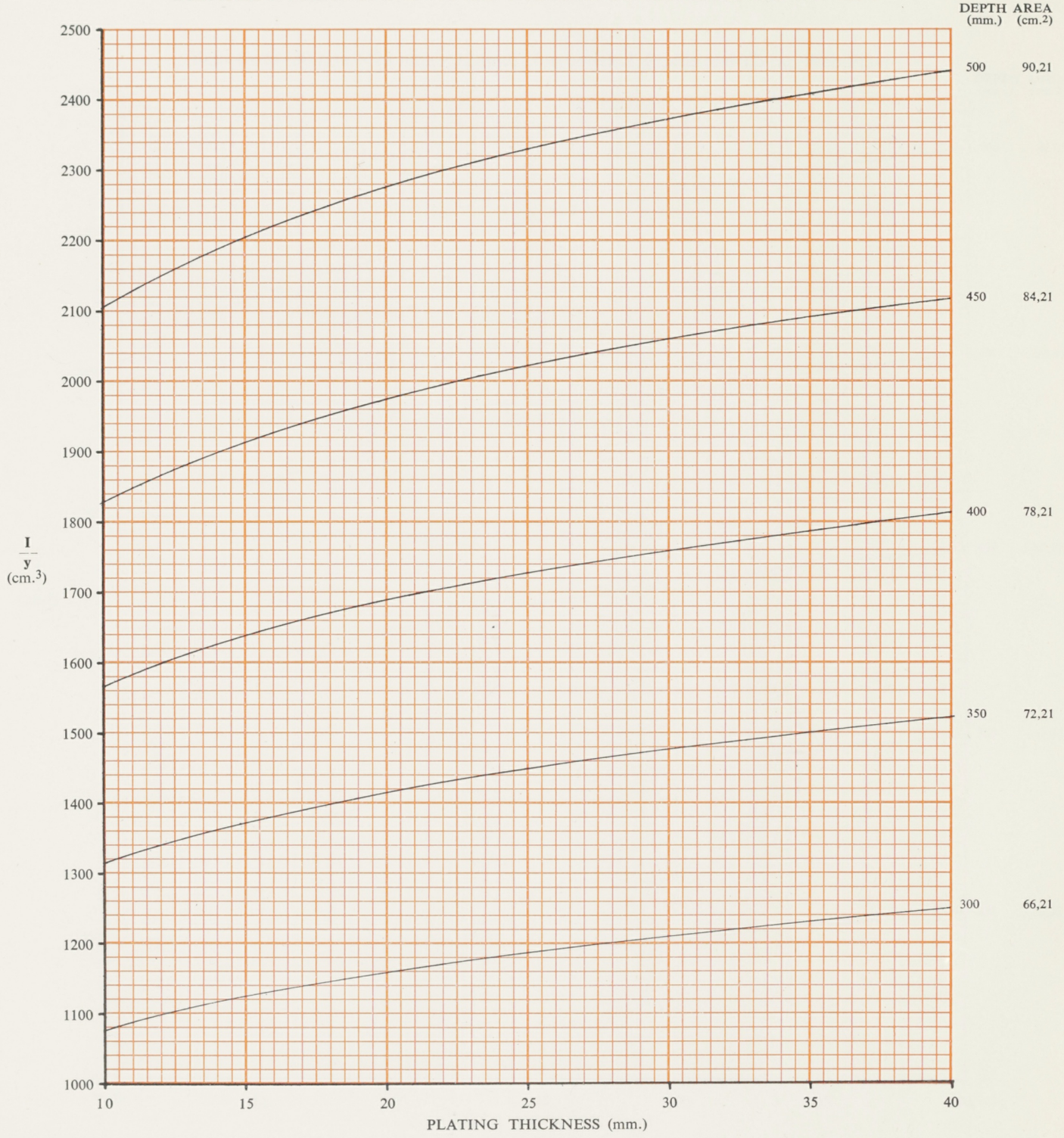


SECTION MODULUS AND AREA OF T-SECTIONS (NORRBOTTEN)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

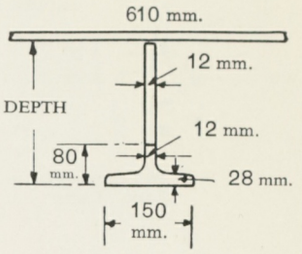


Built from 130 mm. × 25 mm. × 12 mm. Norrbotten T-Profile and 12 mm. Web Plate

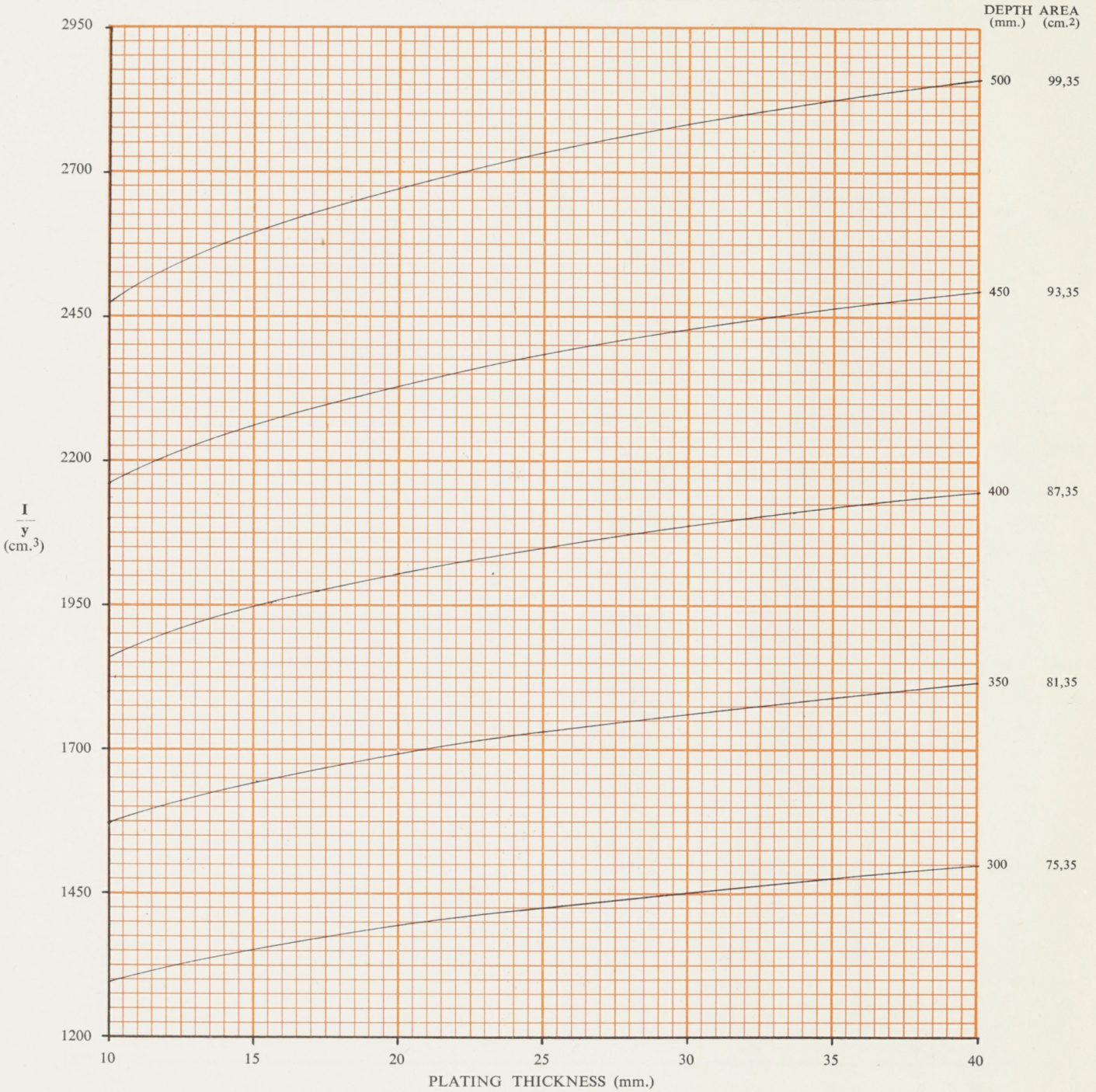


SECTION MODULUS AND AREA OF T-SECTIONS (NORRBOTTEN)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

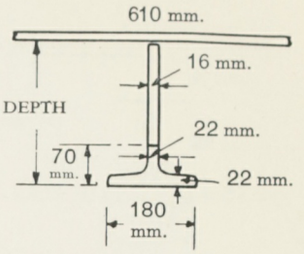


Built from 150 mm. × 28 mm. × 12 mm. Norrbotten T-Profile and 12mm. Web Plate

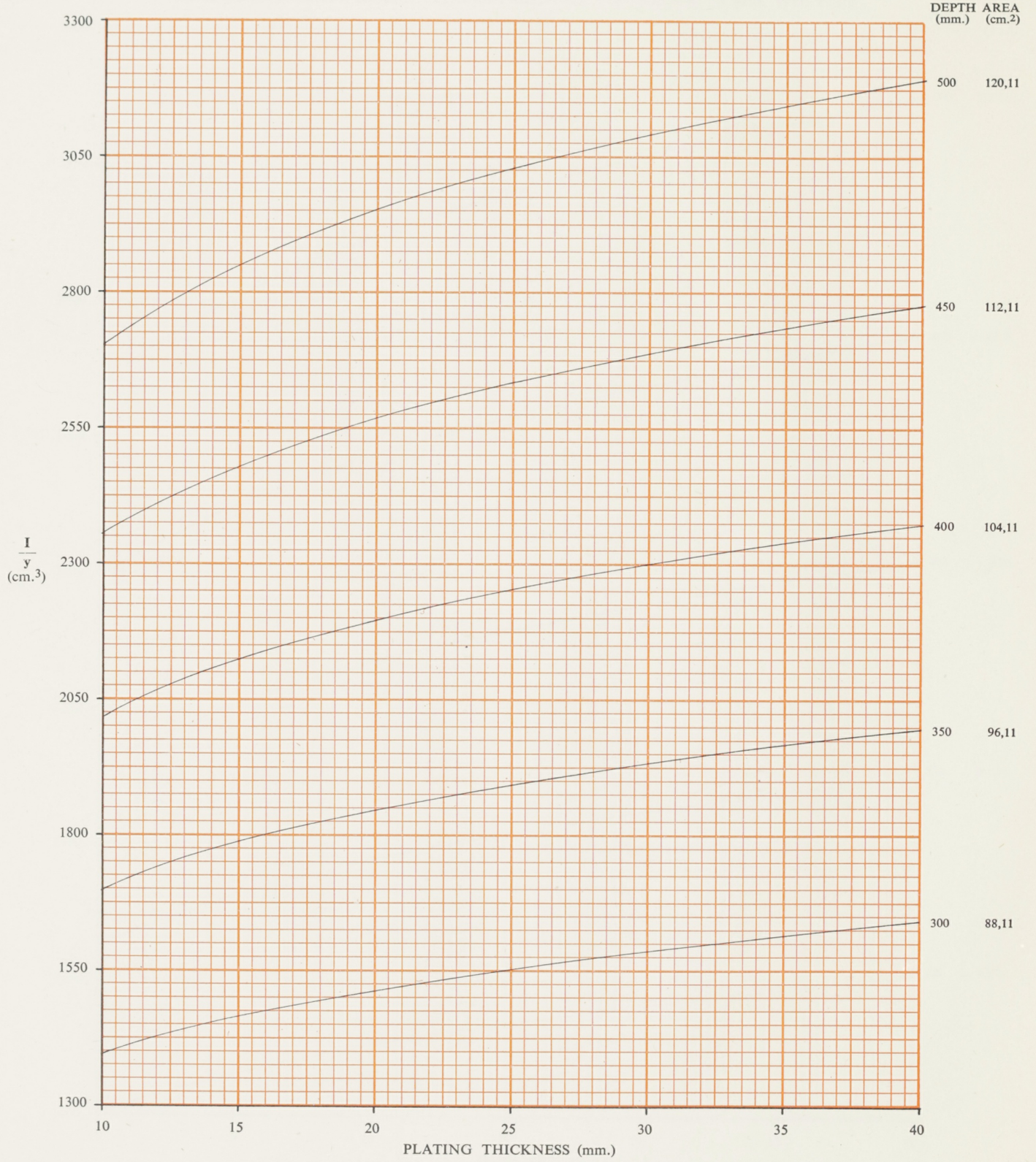


SECTION MODULUS AND AREA OF T-SECTIONS (NORRBOTTEN)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

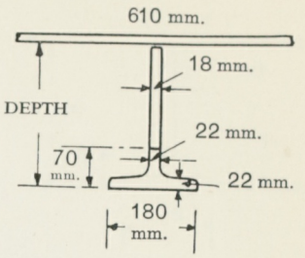


Built from 180 mm. × 22 mm. × 22 mm. Norrbotten T-Profile and 16 mm. Web Plate

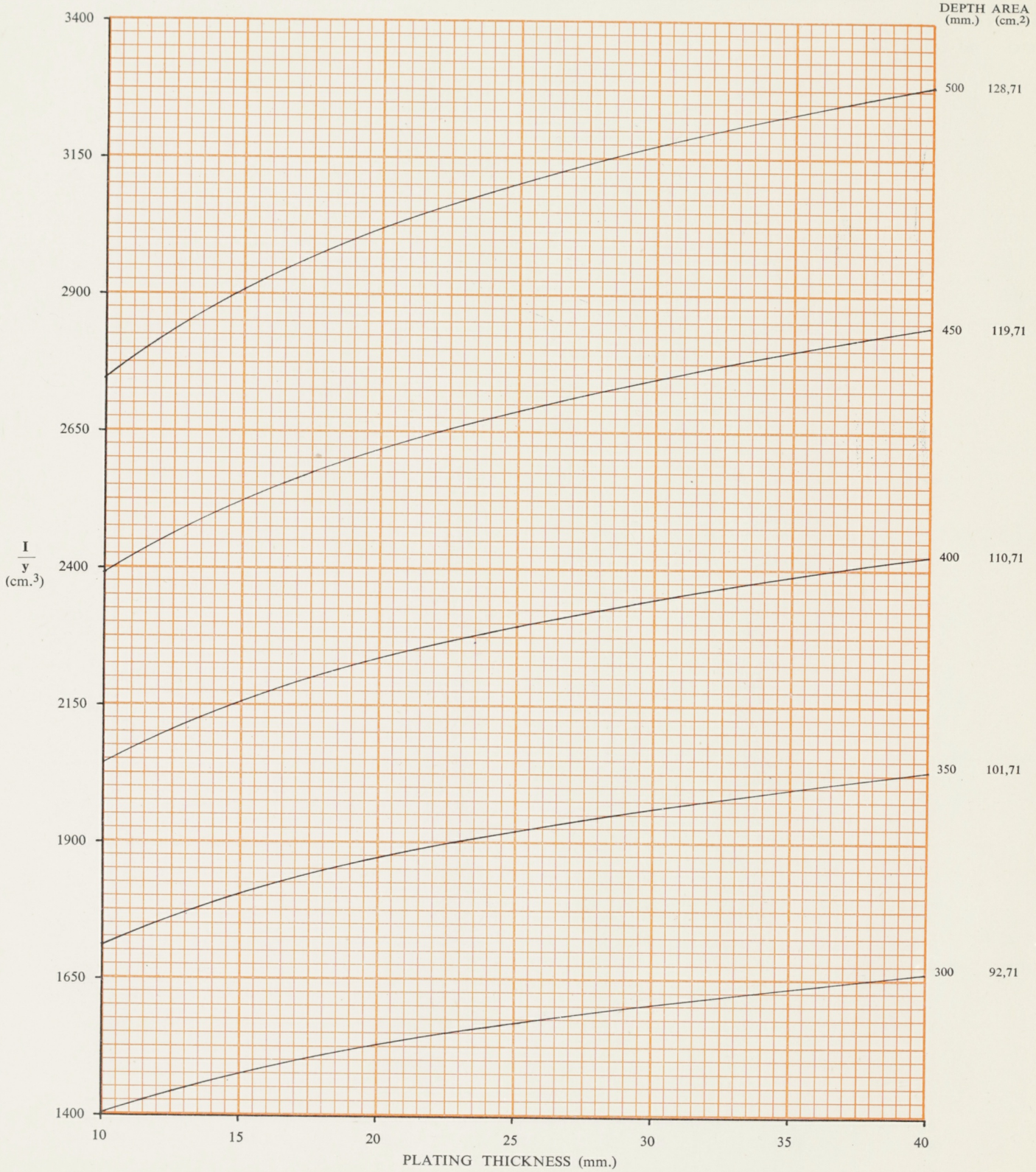


SECTION MODULUS AND AREA OF T-SECTIONS (NORRBOTTEN)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

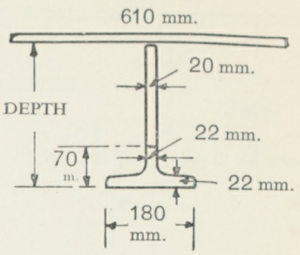


Built from 180 mm. × 22 mm. × 22 mm. Norrbotten T-Profile and 18 mm. Web Plate



SECTION MODULUS AND AREA OF T-SECTIONS (NORRBOTTEN)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



Built from 180 mm. × 22 mm. × 22 mm. Norrbotten T-Profile and 20 mm. Web Plate

DEPTH (mm.)	AREA (cm.²)
500	137,31
450	127,31
400	117,31
350	107,31
300	97,31

$\frac{I}{y}$ (cm.³)

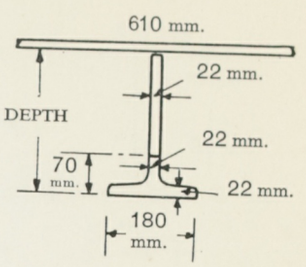
3400
3150
2900
2650
2400
2150
1900
1650
1400

10 15 20 25 30 35 40

PLATING THICKNESS (mm.)

SECTION MODULUS AND AREA OF T-SECTIONS (NORRBOTTEN)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



Built from 180 mm. × 22 mm. × 22 mm. Norrbotten T-Profile and 22 mm. Web Plate

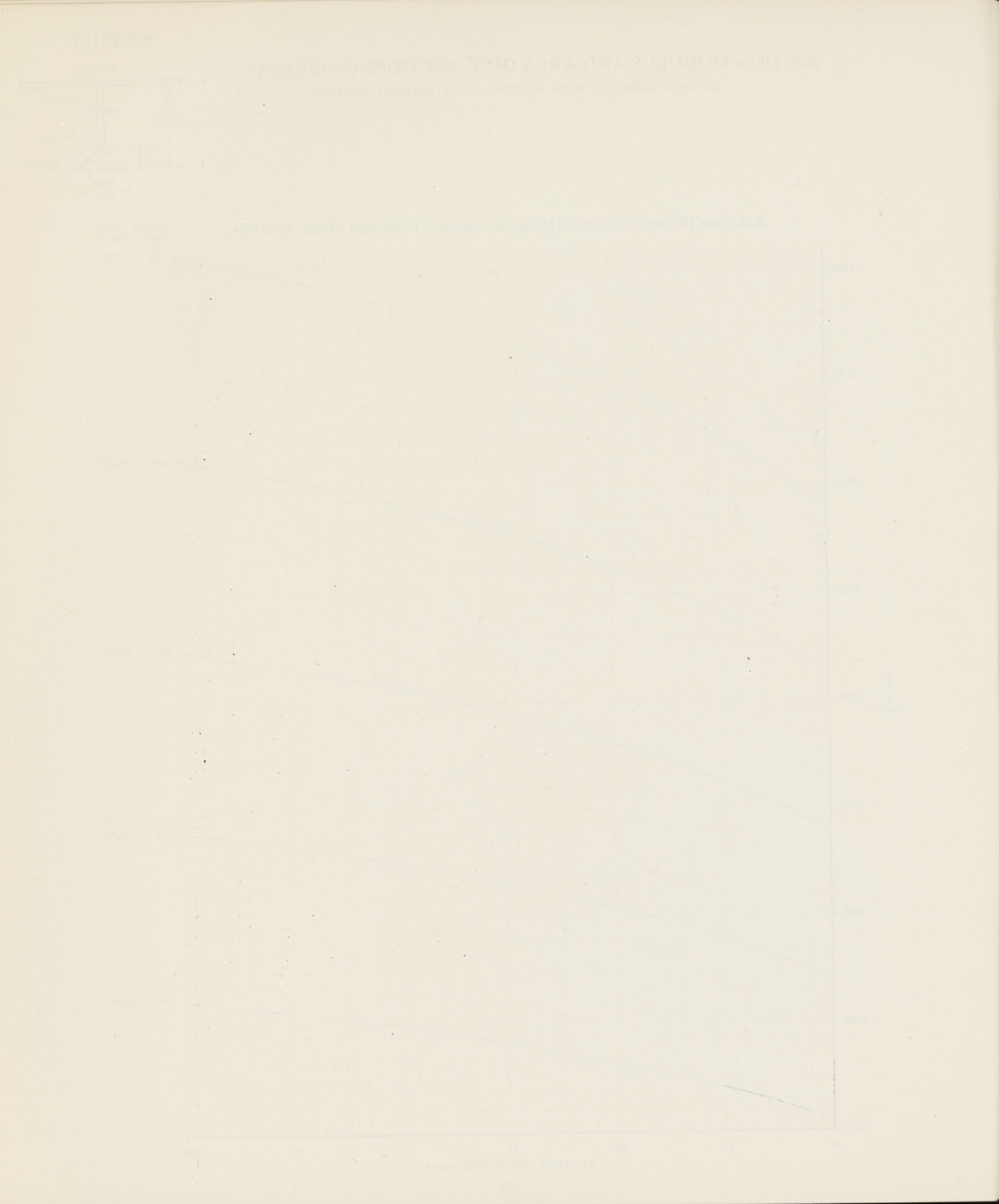
DEPTH (mm.)	AREA (cm.²)
500	145,91
450	134,91
400	123,91
350	112,91
300	101,91

$\frac{I}{y}$ (cm.³)

3400
3150
2900
2650
2400
2150
1900
1650
1400

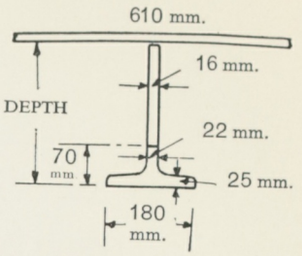
10 15 20 25 30 35 40

PLATING THICKNESS (mm.)



SECTION MODULUS AND AREA OF T-SECTIONS (NORRBOTTEN)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



Built from 180 mm. × 25 mm. × 22 mm. Norrbotten T-Profile and 16 mm. Web Plate

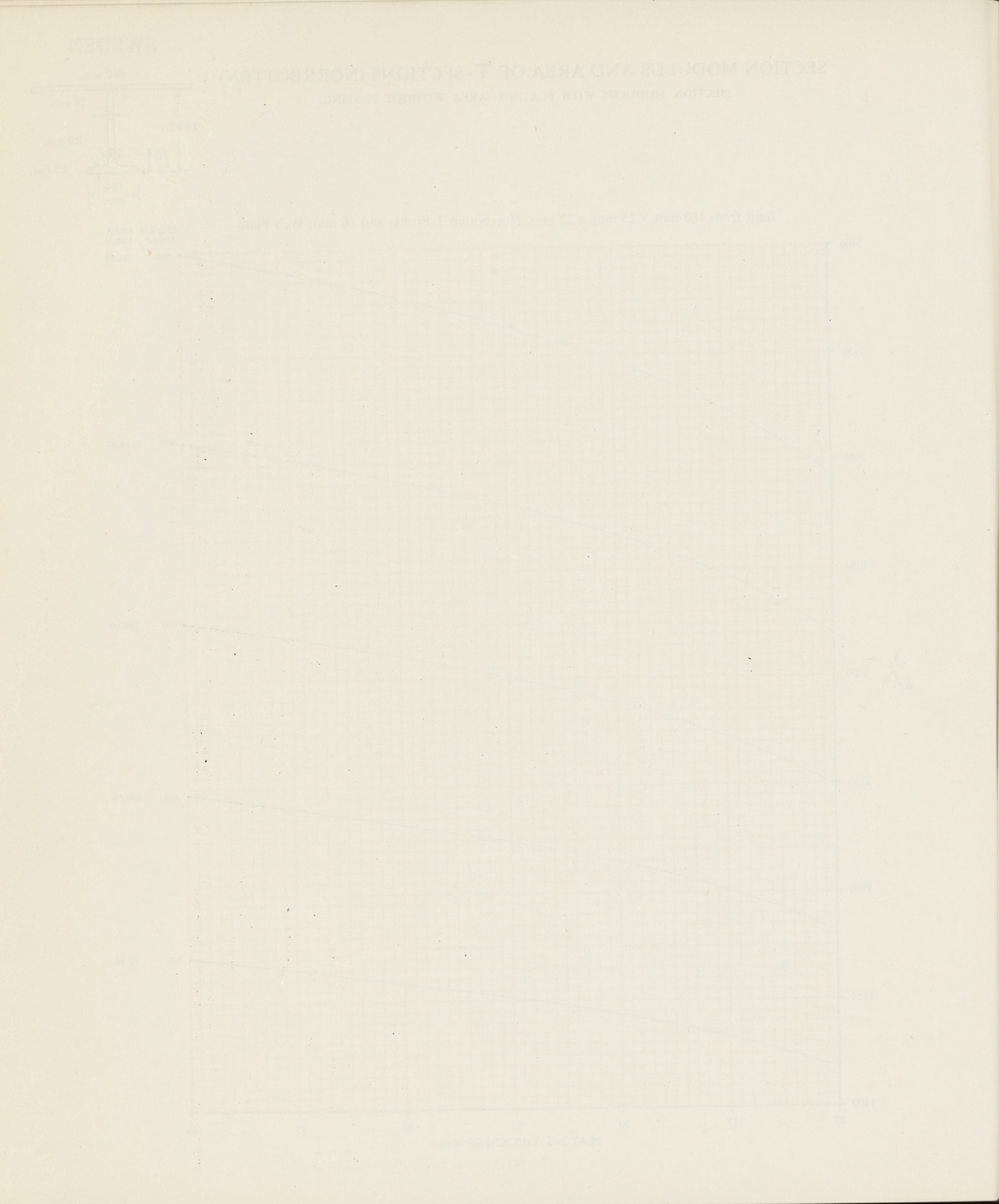
DEPTH (mm.)	AREA (cm.2)
500	124,50
450	116,50
400	108,50
350	100,50
300	92,50

$\frac{I}{y}$ (cm.^{3})

3400
3150
2900
2650
2400
2150
1900
1650
1400

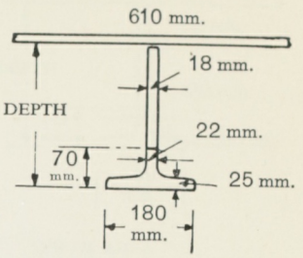
10 15 20 25 30 35 40

PLATING THICKNESS (mm.)



SECTION MODULUS AND AREA OF T-SECTIONS (NORRBOTTEN)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



Built from 180 mm. × 25 mm. × 22 mm. Norrbotten T-Profile and 18 mm. Web Plate

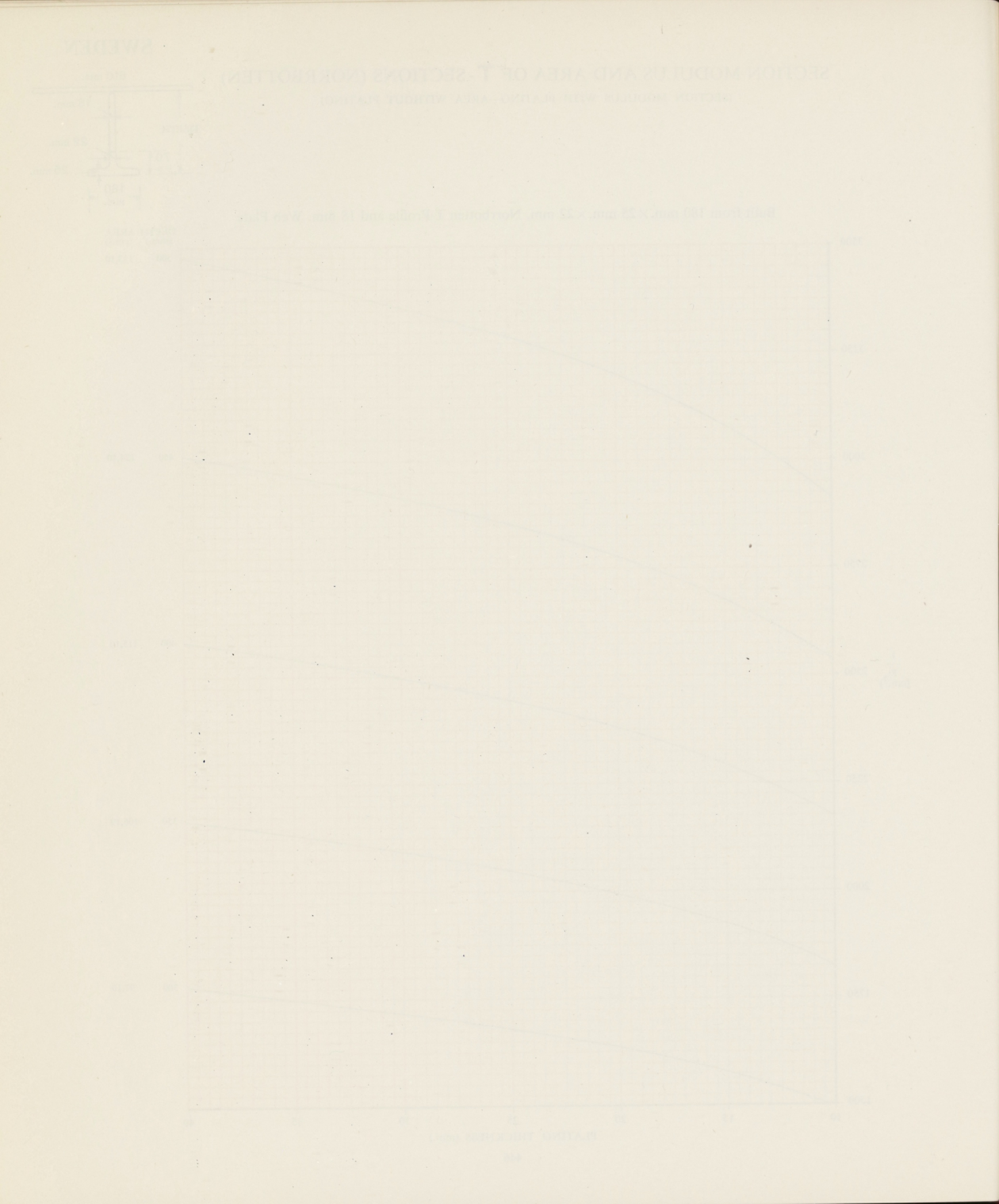
DEPTH (mm.)	AREA (cm.²)
500	133,10
450	124,10
400	115,10
350	106,10
300	97,10

$\frac{I}{y}$ (cm.³)

3500
3250
3000
2750
2500
2250
2000
1750
1500

10 15 20 25 30 35 40

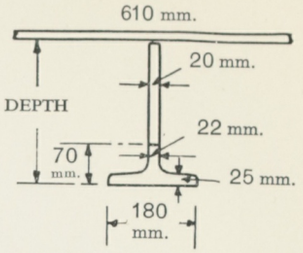
PLATING THICKNESS (mm.)



SECTION MODULUS AND AREA OF T-SECTIONS (NORRBOTTEN)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)

SWEDEN



Built from 180 mm. × 25 mm. × 22 mm. Norrbotten T-Profile and 20 mm. Web Plate

DEPTH (mm.)	AREA (cm.2)
500	141,70
450	131,70
400	121,70
350	111,70
300	101,70

$\frac{I}{y}$ (cm.^{3})

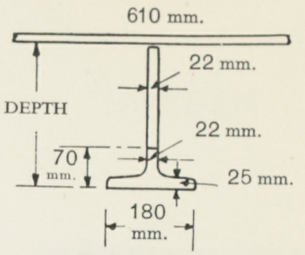
3500
3250
3000
2750
2500
2250
2000
1750
1500

10 15 20 25 30 35 40

PLATING THICKNESS (mm.)

SECTION MODULUS AND AREA OF T-SECTIONS (NORRBOTTEN)

(SECTION MODULUS WITH PLATING—AREA WITHOUT PLATING)



Built from 180 mm. × 25 mm. × 22 mm. Norrbotten T-Profile and 22 mm. Web Plate

DEPTH (mm.)	AREA (cm.²)
500	150,30
450	139,30
400	128,30
350	117,30
300	106,30

$\frac{I}{y}$ (cm.³)

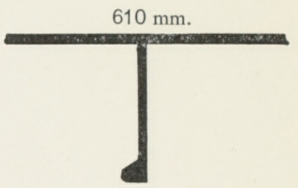
3550
3300
3050
2800
2550
2300
2050
1800
1550

10 15 20 25 30 35 40

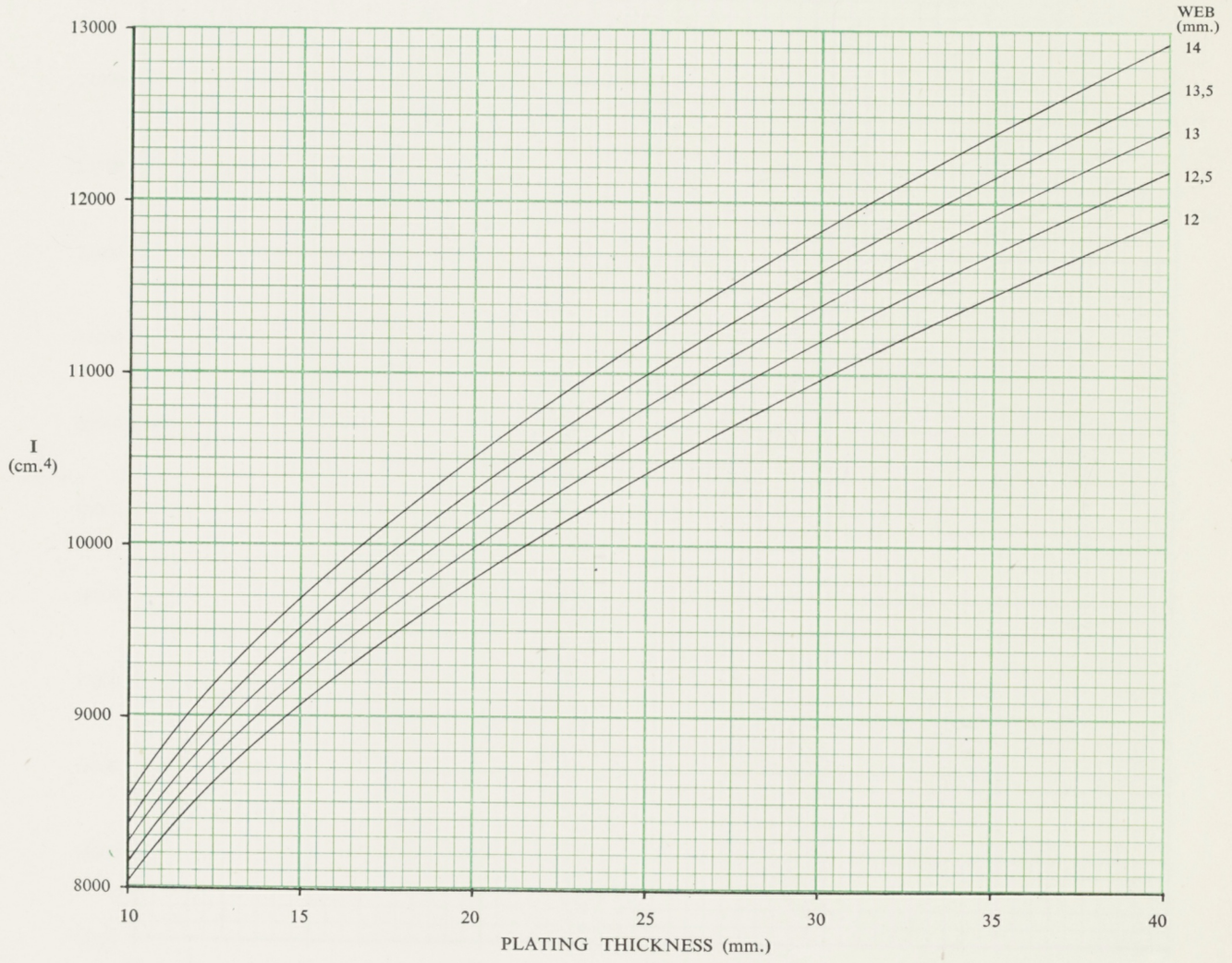
PLATING THICKNESS (mm.)

MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)

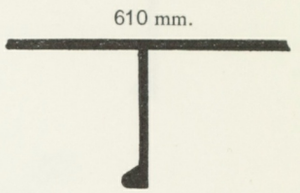


250 mm. DEPTH

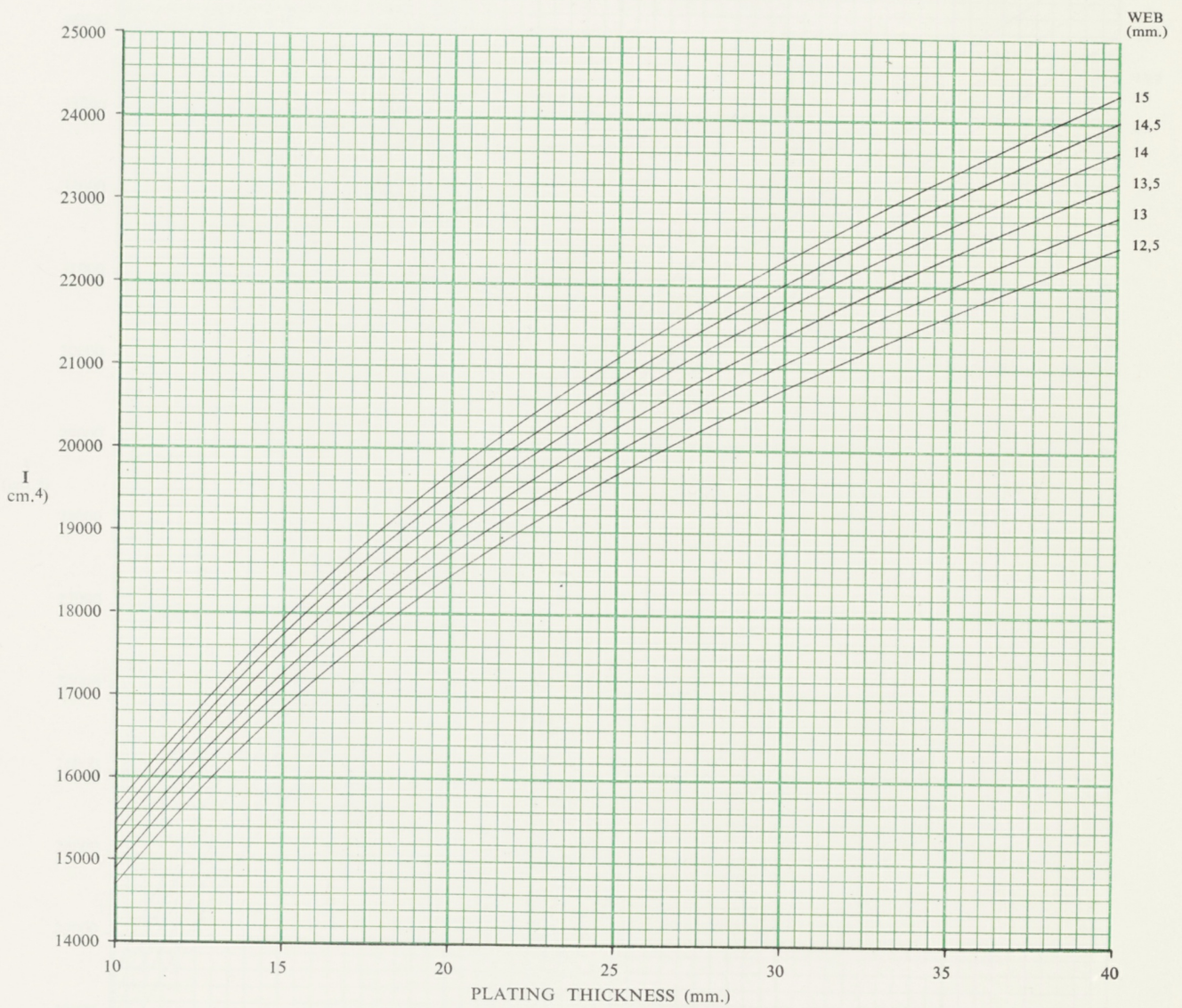


MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

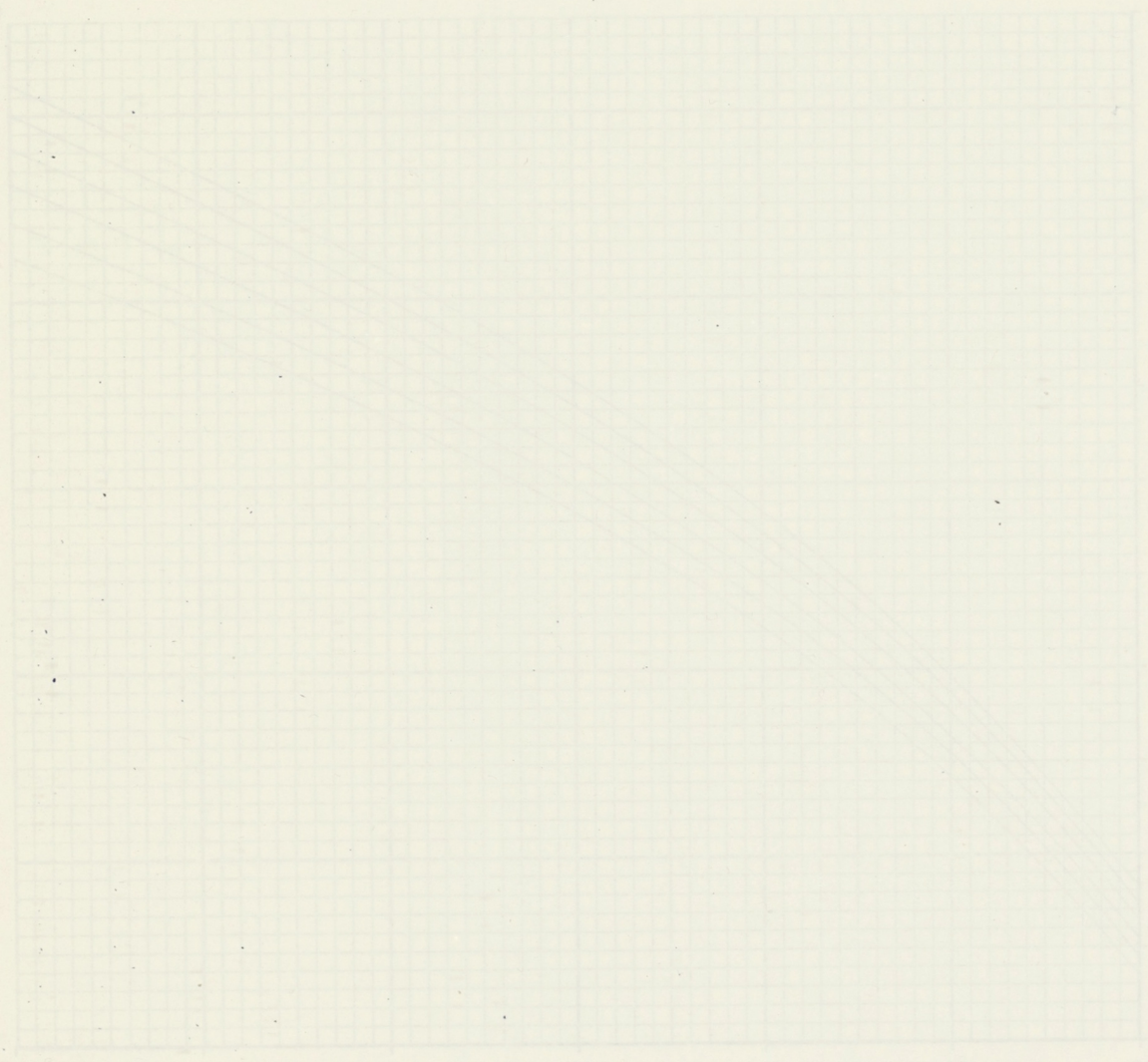
(WITH PLATING)



300 mm. DEPTH

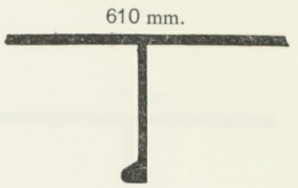


LLL

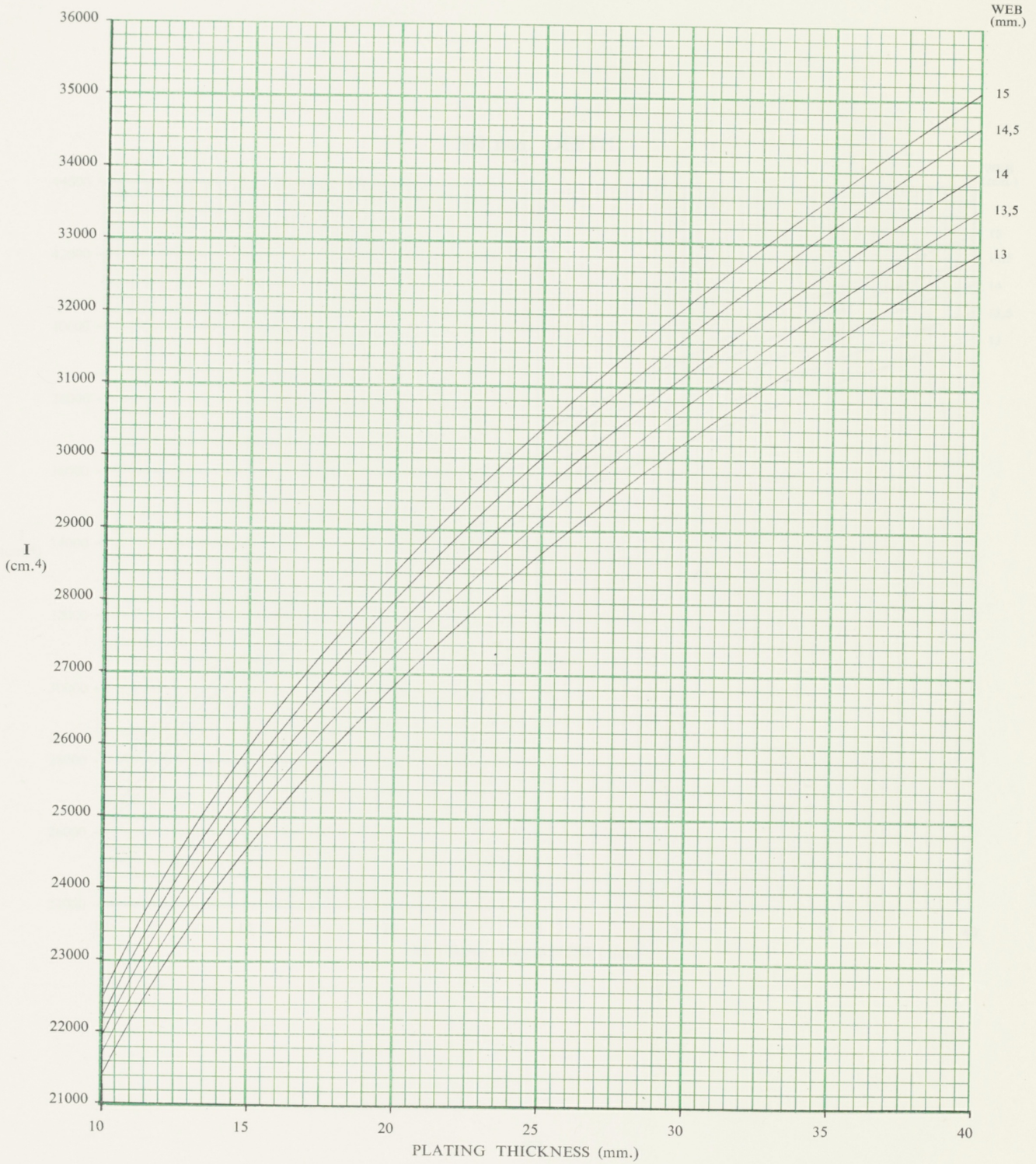


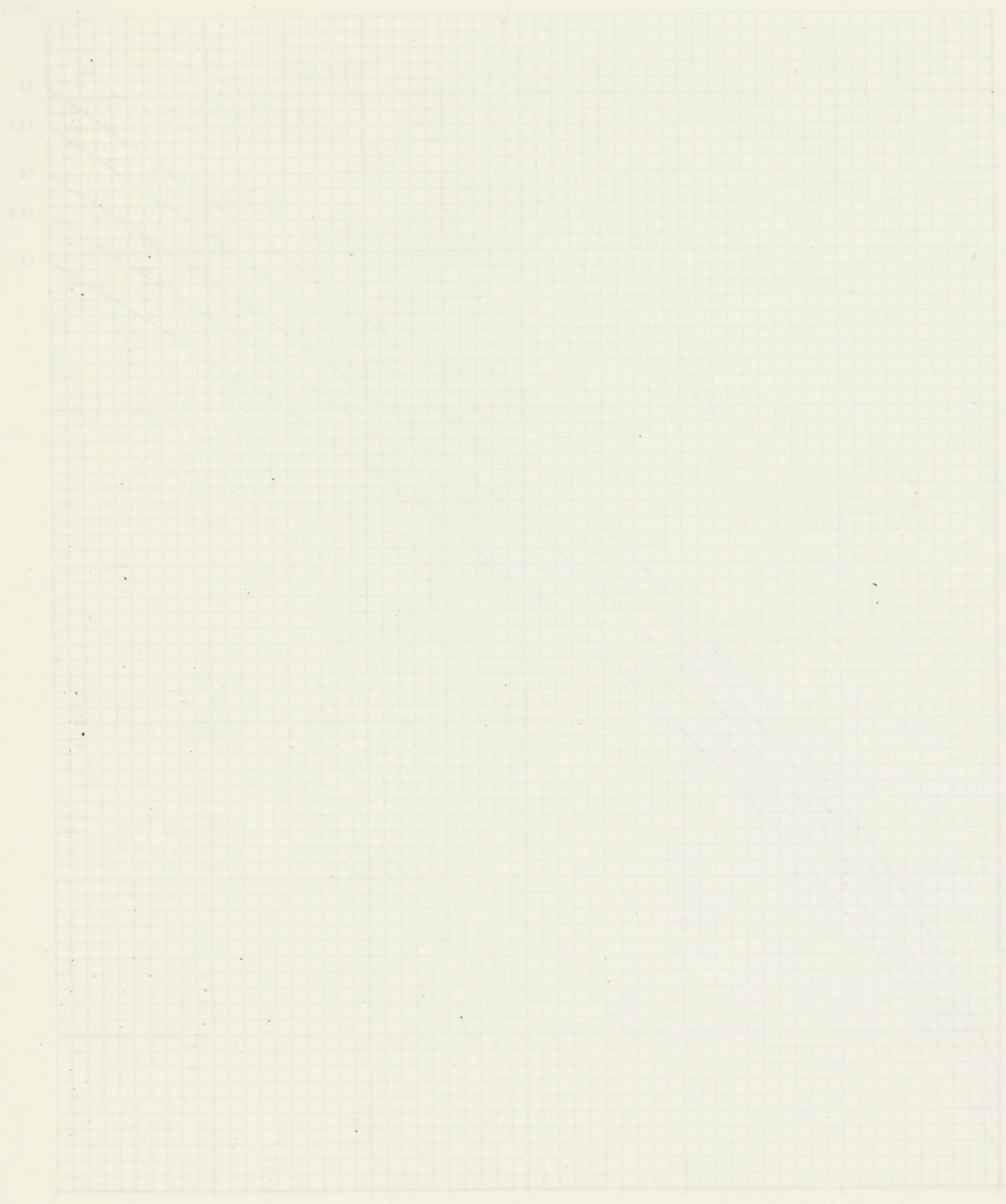
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)



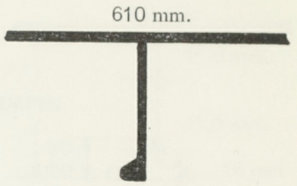
350 mm. DEPTH



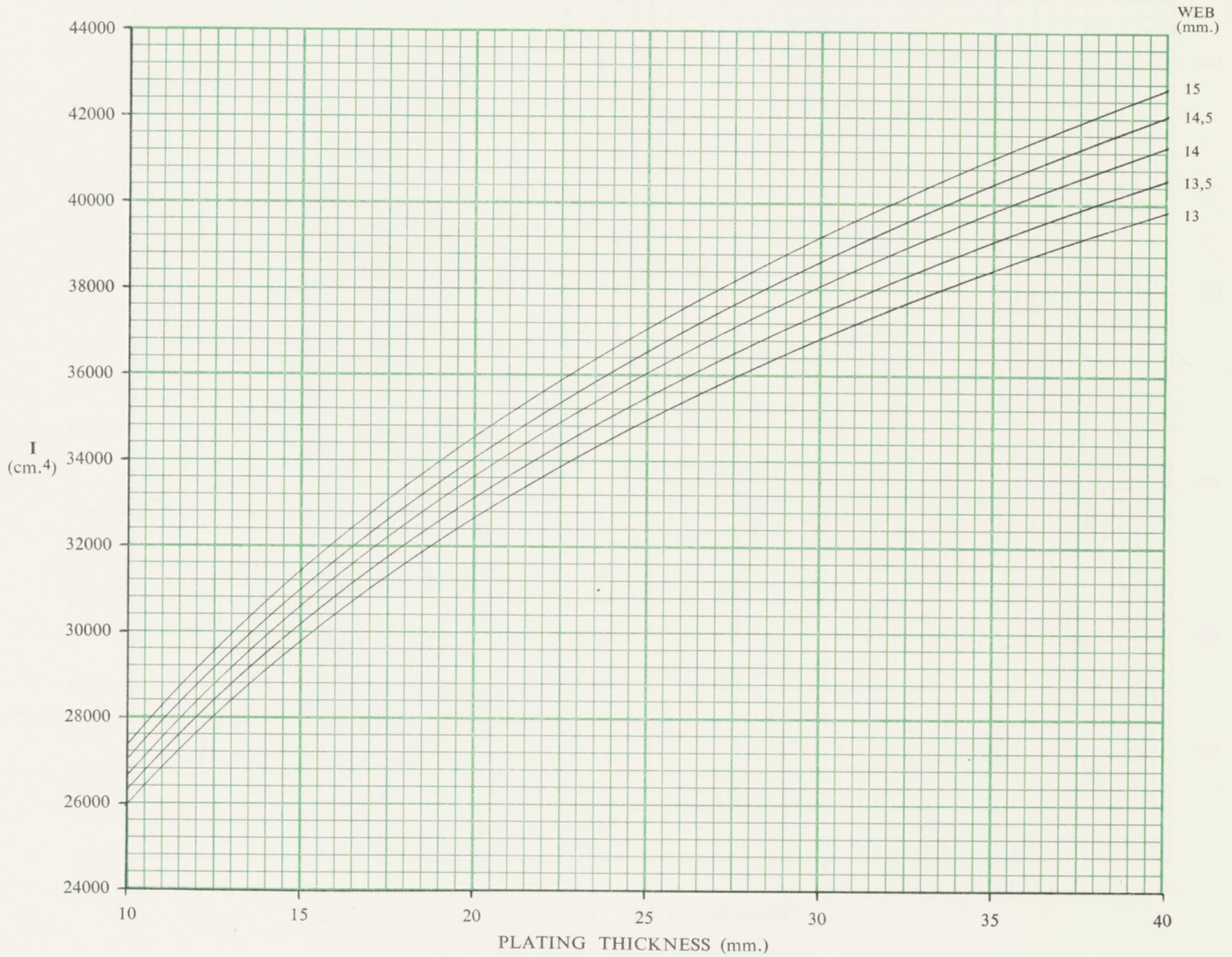


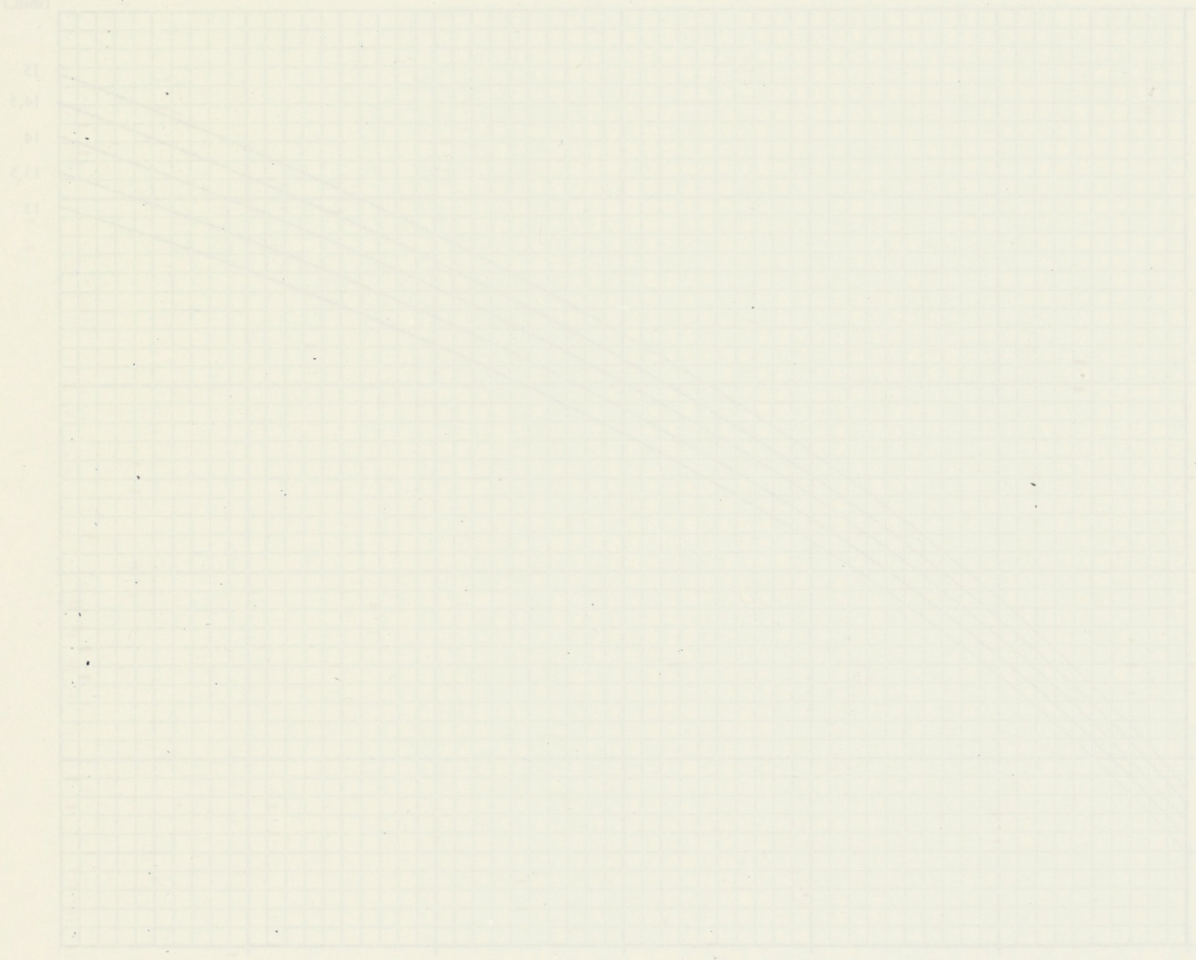
MOMENT OF INERTIA OF ONE-SIDED BULB PLATES

(WITH PLATING)



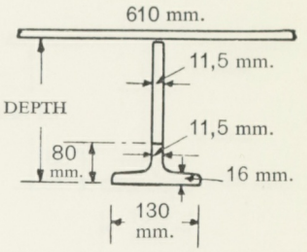
380 mm. DEPTH



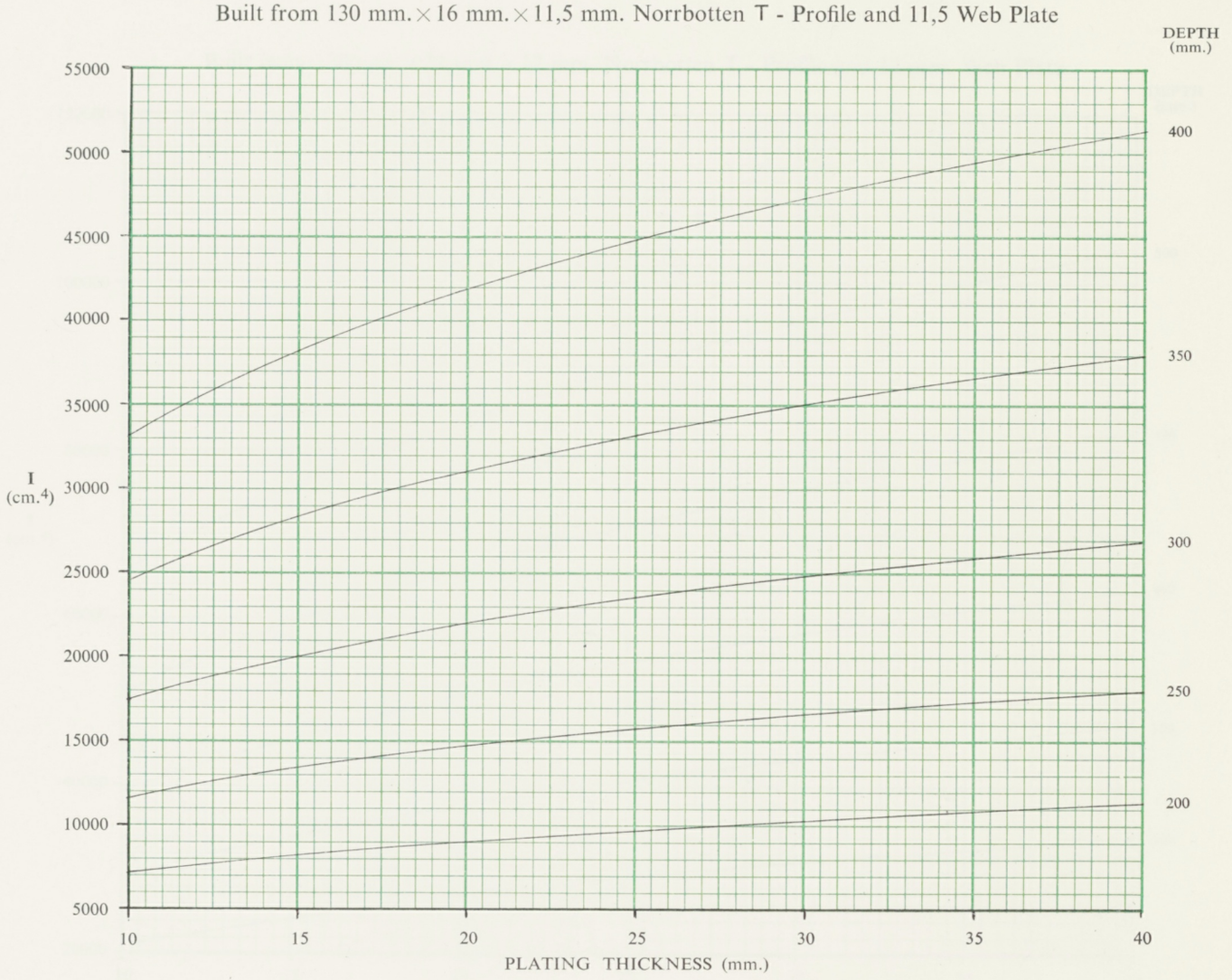


MOMENT OF INERTIA OF T - SECTIONS (NORRBOTTEN)

(WITH PLATING)

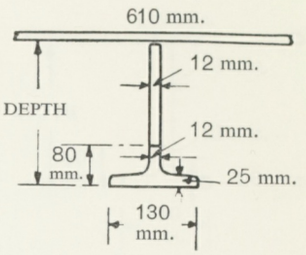


Built from 130 mm. × 16 mm. × 11,5 mm. Norrbotten T - Profile and 11,5 Web Plate

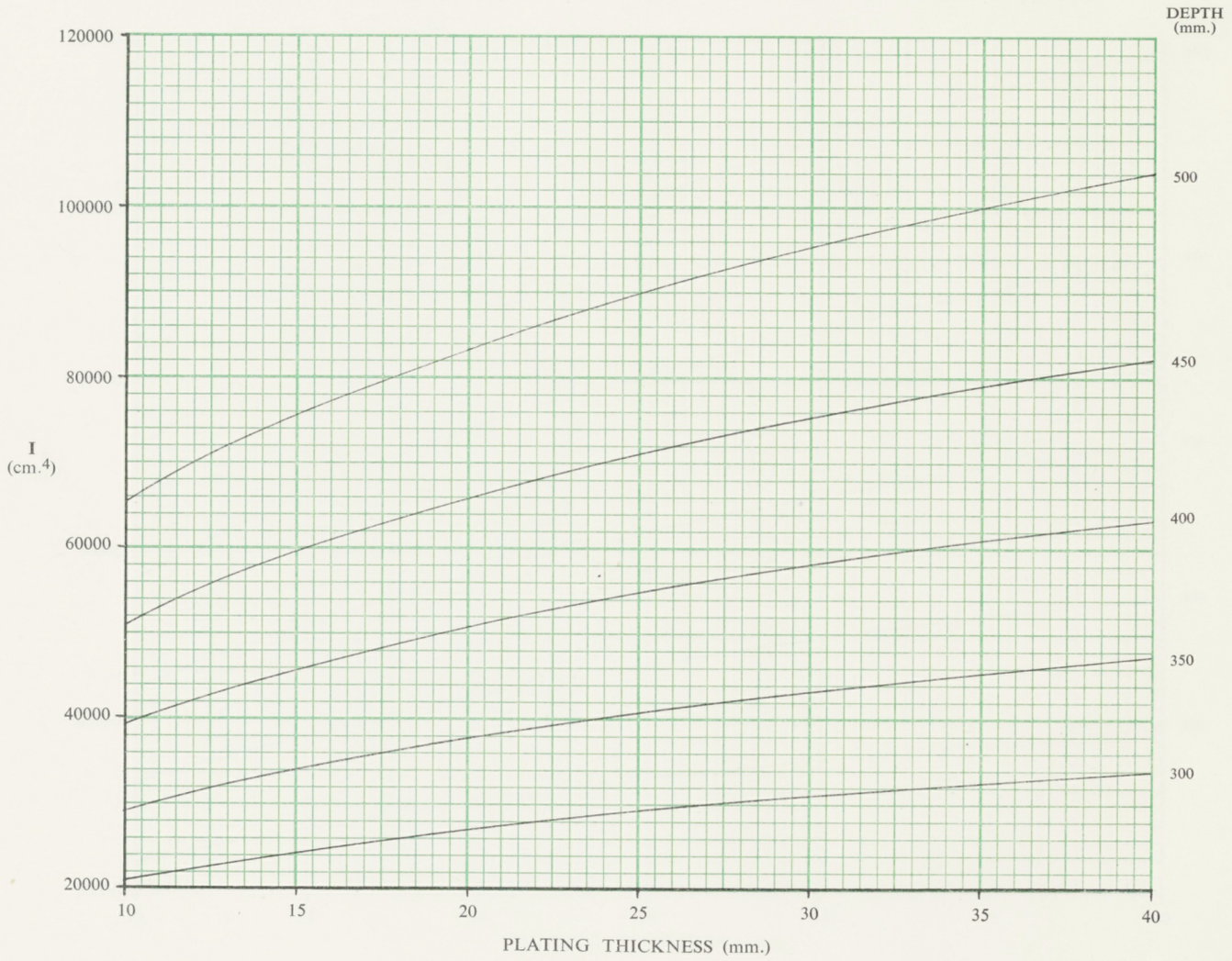


MOMENT OF INERTIA OF T - SECTIONS (NORRBOTTEN)

(WITH PLATING)

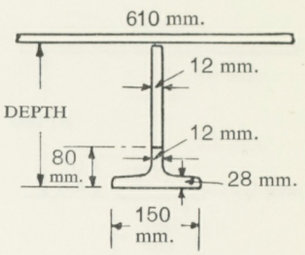


Built from 130 mm. × 25 mm. × 12 mm. Norrbotten T - Profile and 12 mm. Web Plate

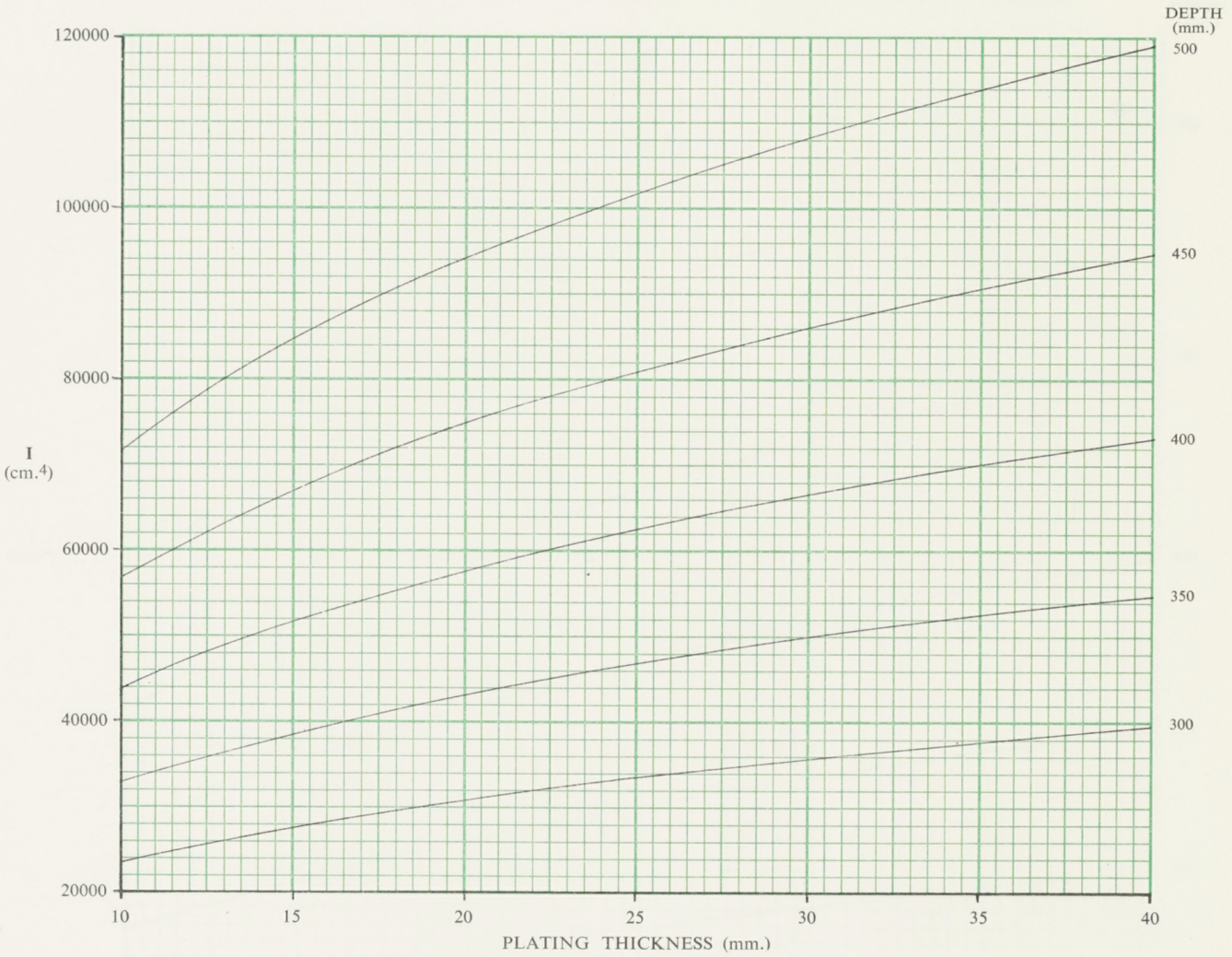


MOMENT OF INERTIA OF T - SECTIONS (NORRBOTTEN)

(WITH PLATING)



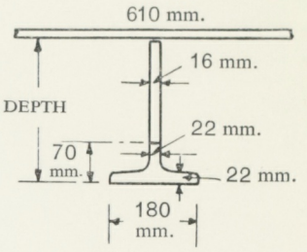
Built from 150 mm. × 28 mm. × 12 mm. Norrbotten T - Profile and 12 mm. Web Plate



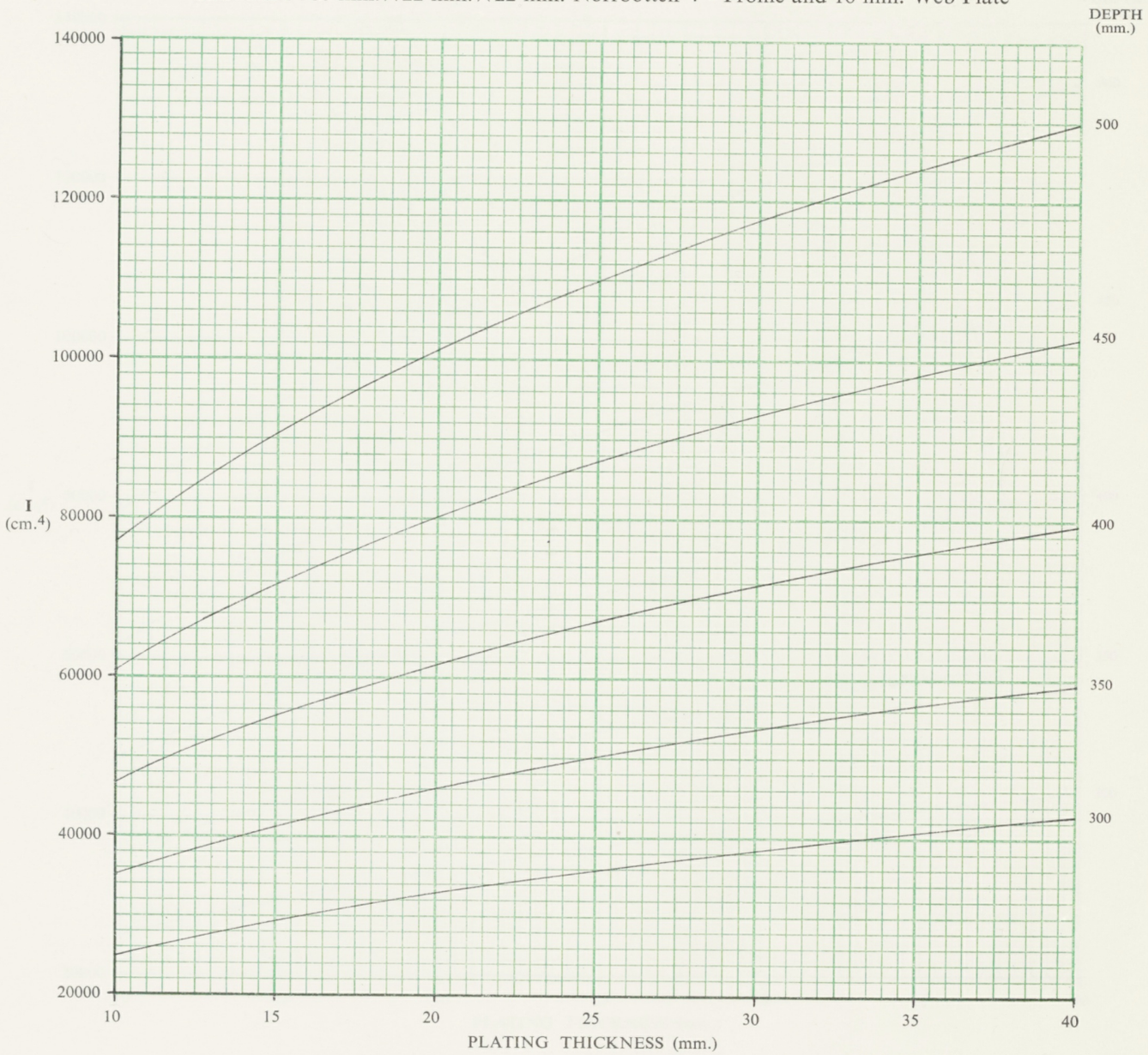
610 max.
12 mm.
DEPTH
12 mm.
d
25 mm.
150
mm.

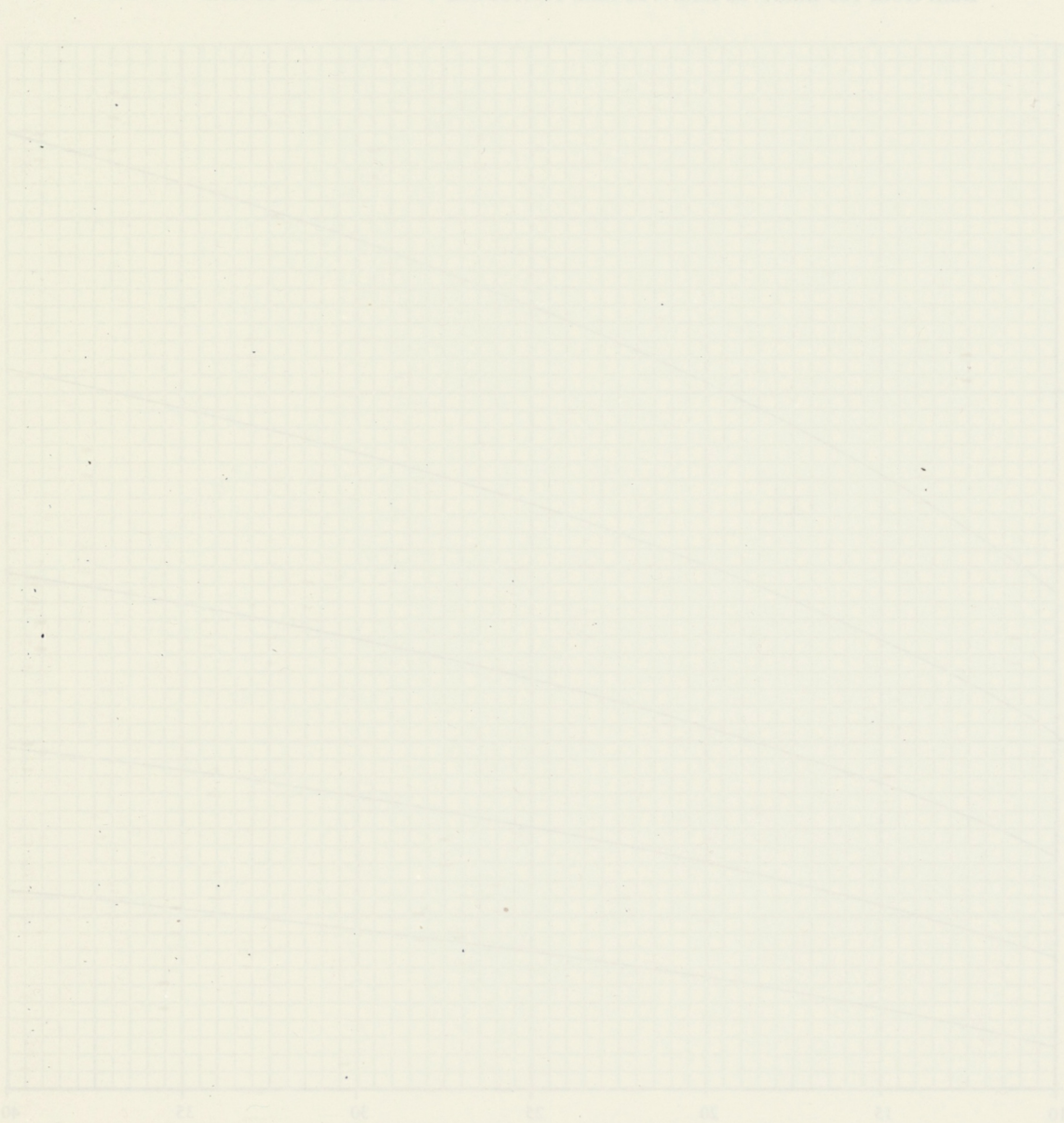
MOMENT OF INERTIA OF T - SECTIONS (NORRBOTTEN)

(WITH PLATING)



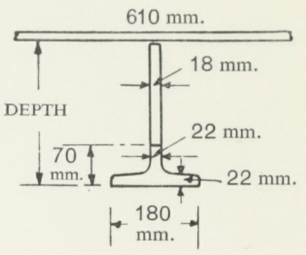
Built from 180 mm. × 22 mm. × 22 mm. Norrbotten T - Profile and 16 mm. Web Plate



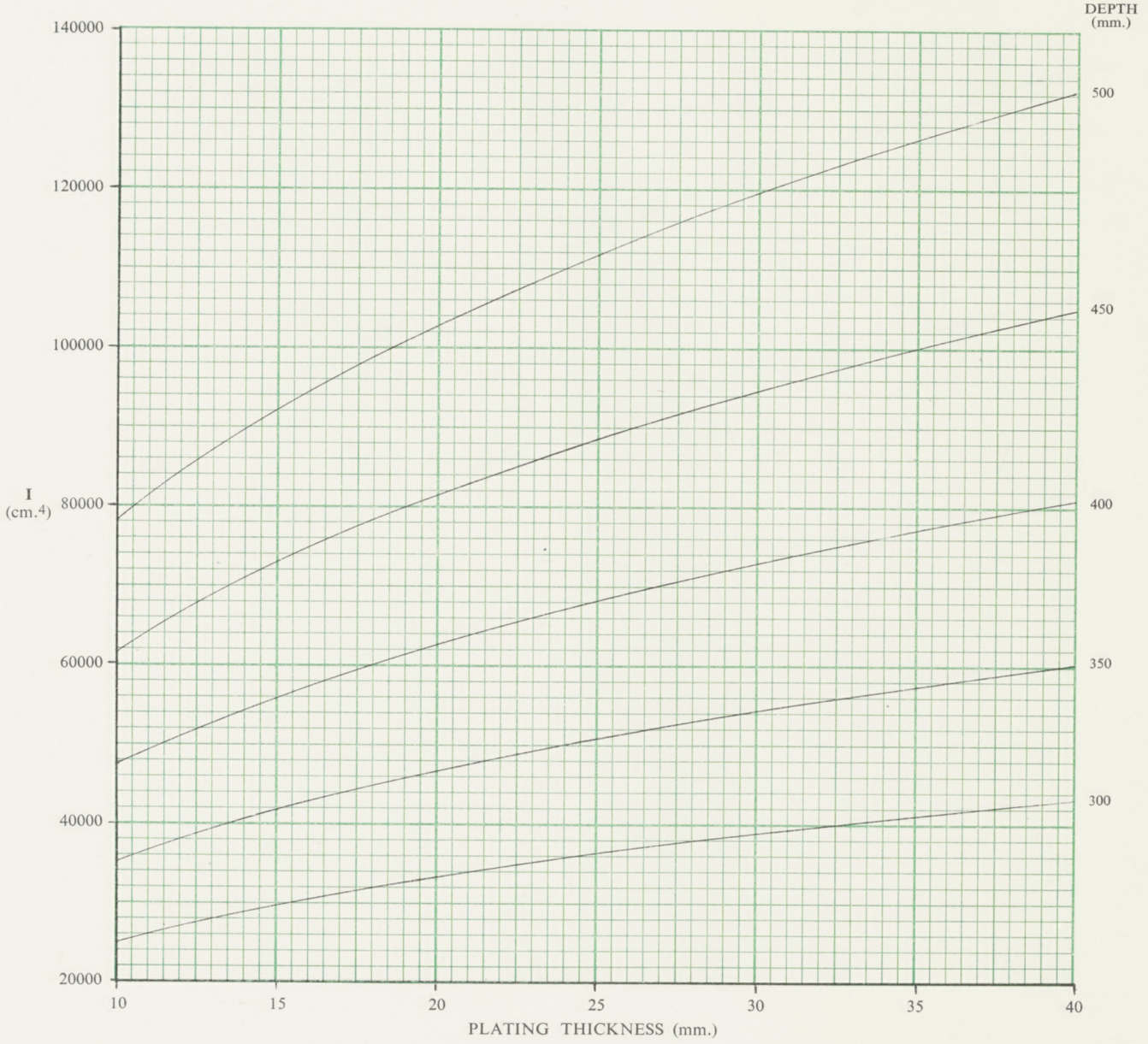


MOMENT OF INERTIA OF T - SECTIONS (NORRBOTTEN)

(WITH PLATING)

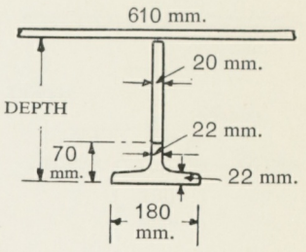


Built from 180 mm. × 22 mm. × 22 mm. Norrbotten T - Profile and 18 mm. Web Plate

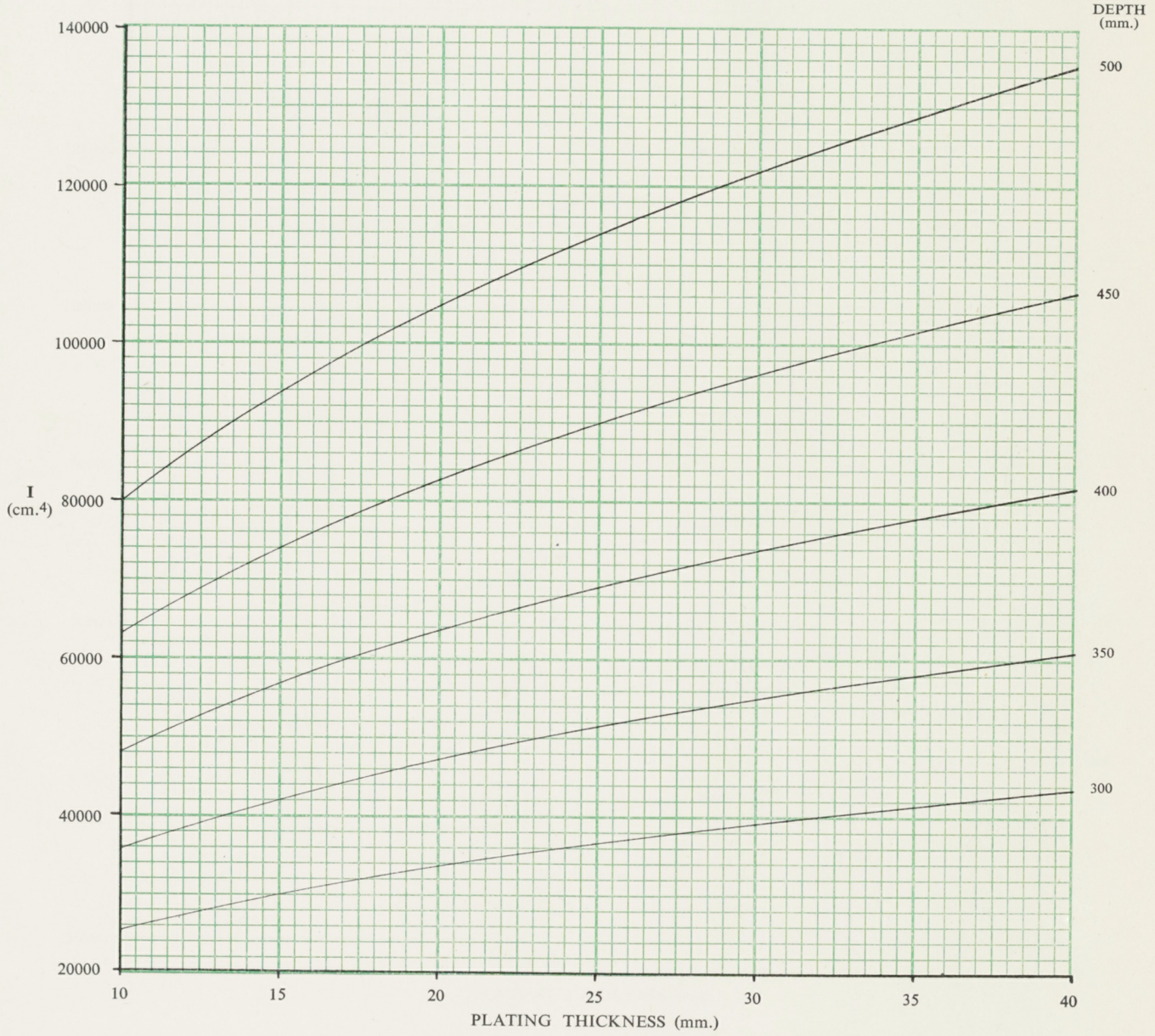


MOMENT OF INERTIA OF T - SECTIONS (NORRBOTTEN)

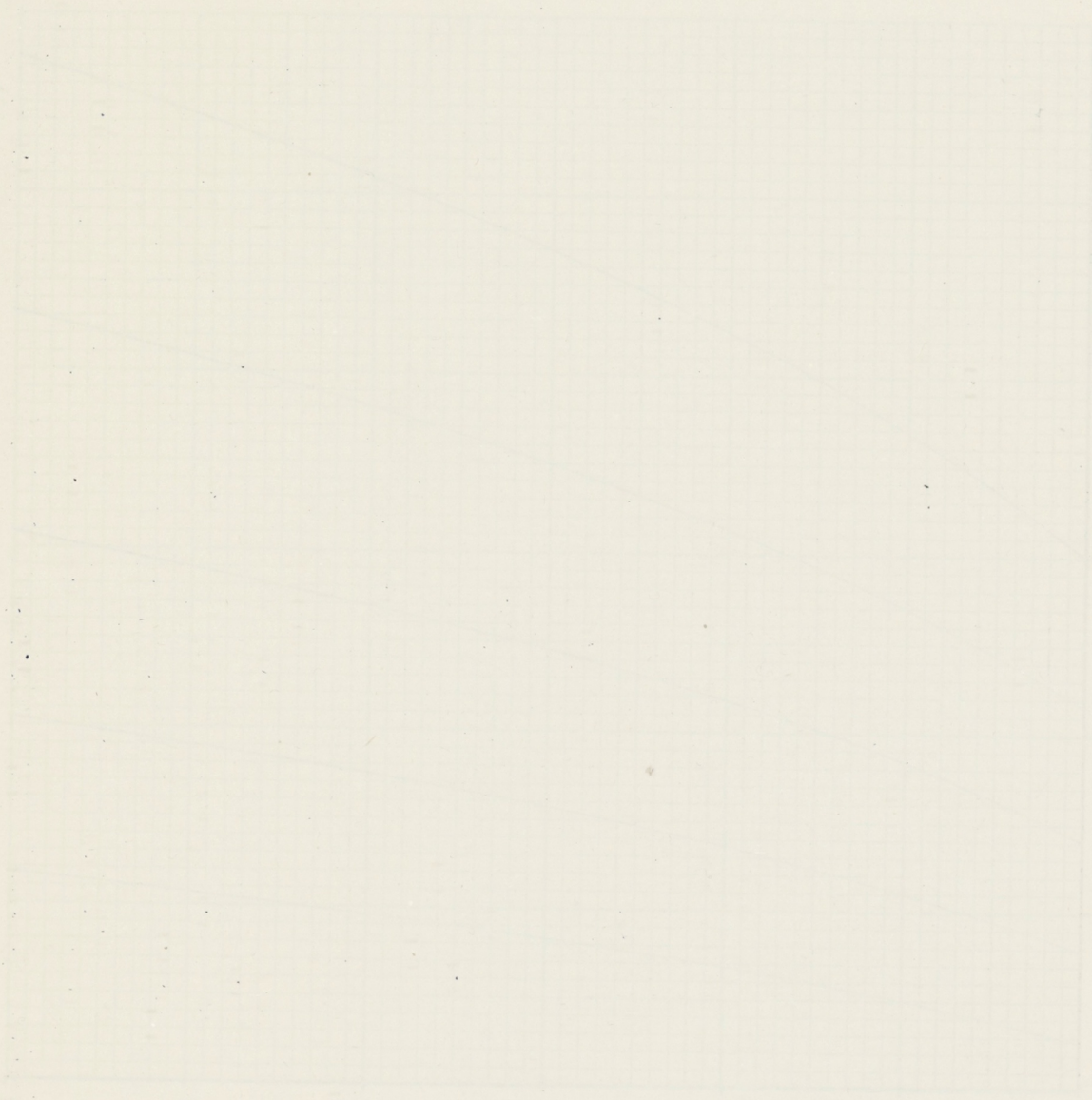
(WITH PLATING)



Built from 180 mm. × 22 mm. × 22 mm. Norrbotten T - Profile and 20 mm. Web Plate

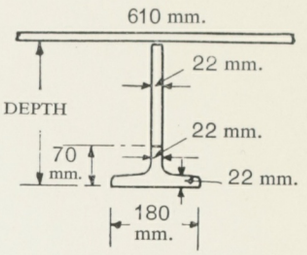


MMM

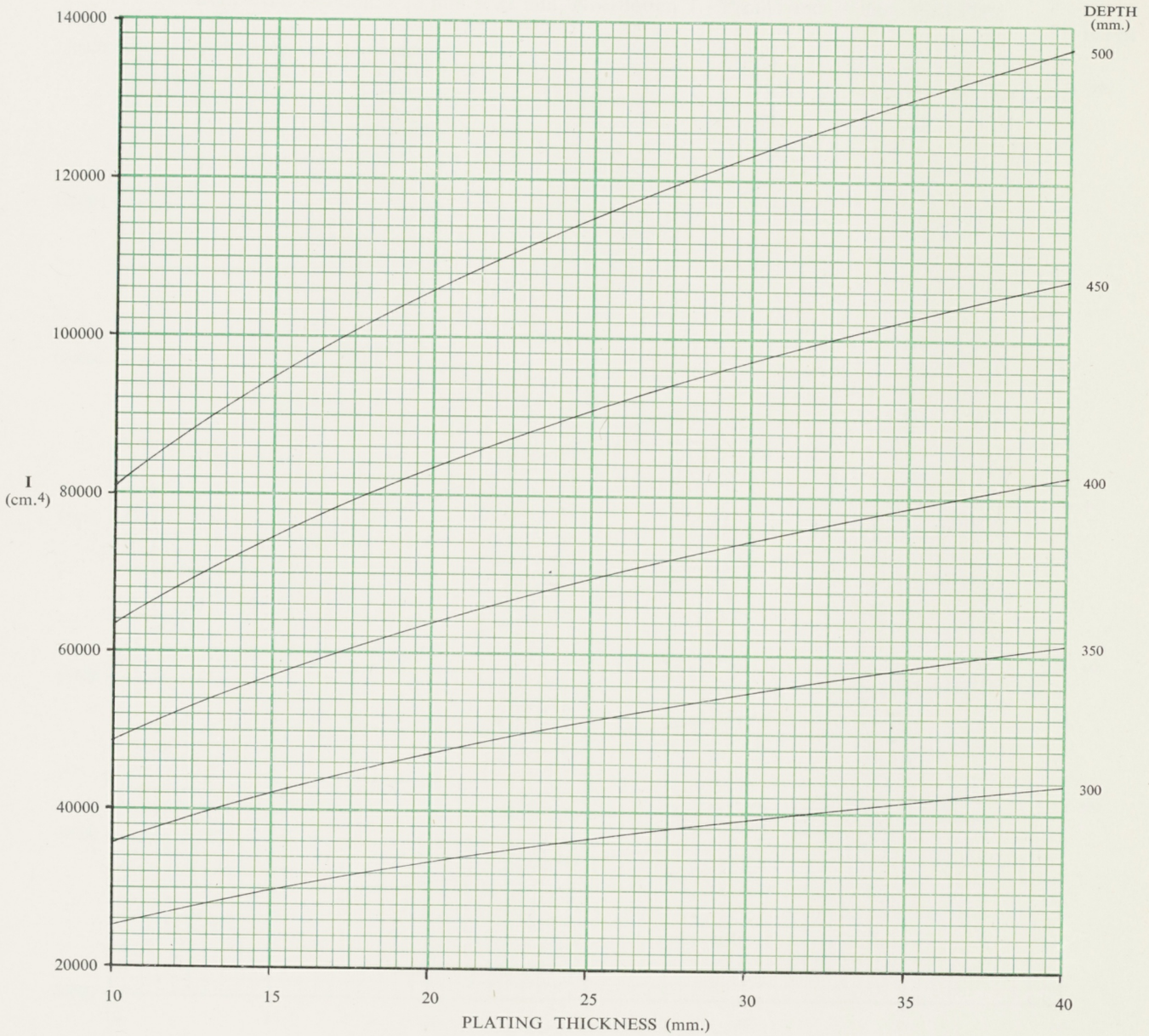


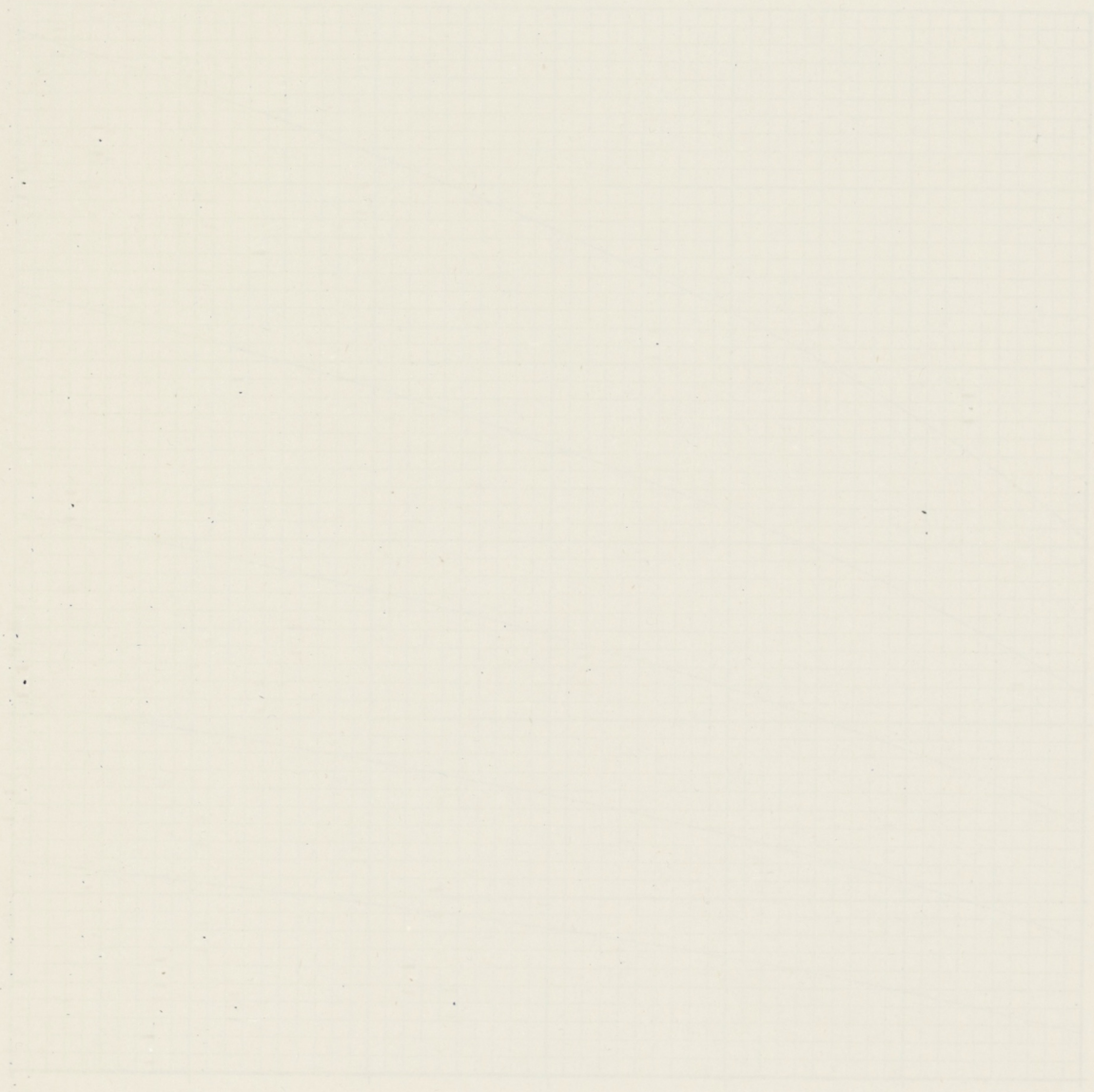
MOMENT OF INERTIA OF T - SECTIONS (NORRBOTTEN)

(WITH PLATING)



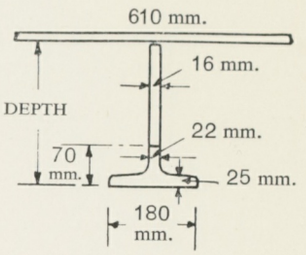
Built from 180 mm. × 22 mm. × 22 mm. Norrbotten T - Profile and 22 mm. Web Plate



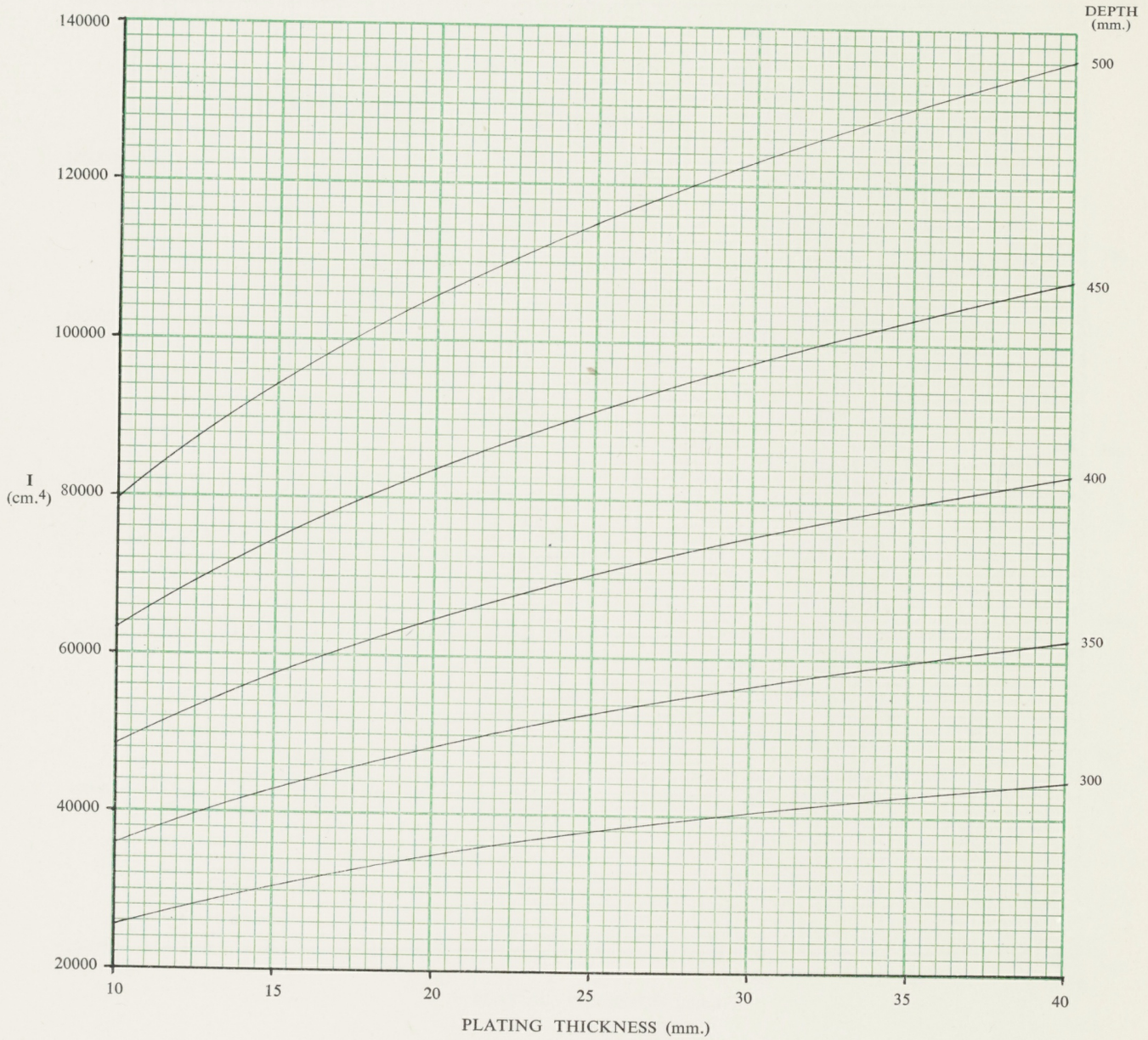


MOMENT OF INERTIA OF T - SECTIONS (NORRBOTTEN)

(WITH PLATING)

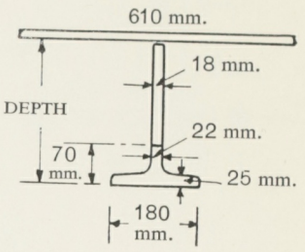


Built from 180 mm. × 25 mm. × 22 mm. Norrbotten T - Profile and 16 mm. Web Plate

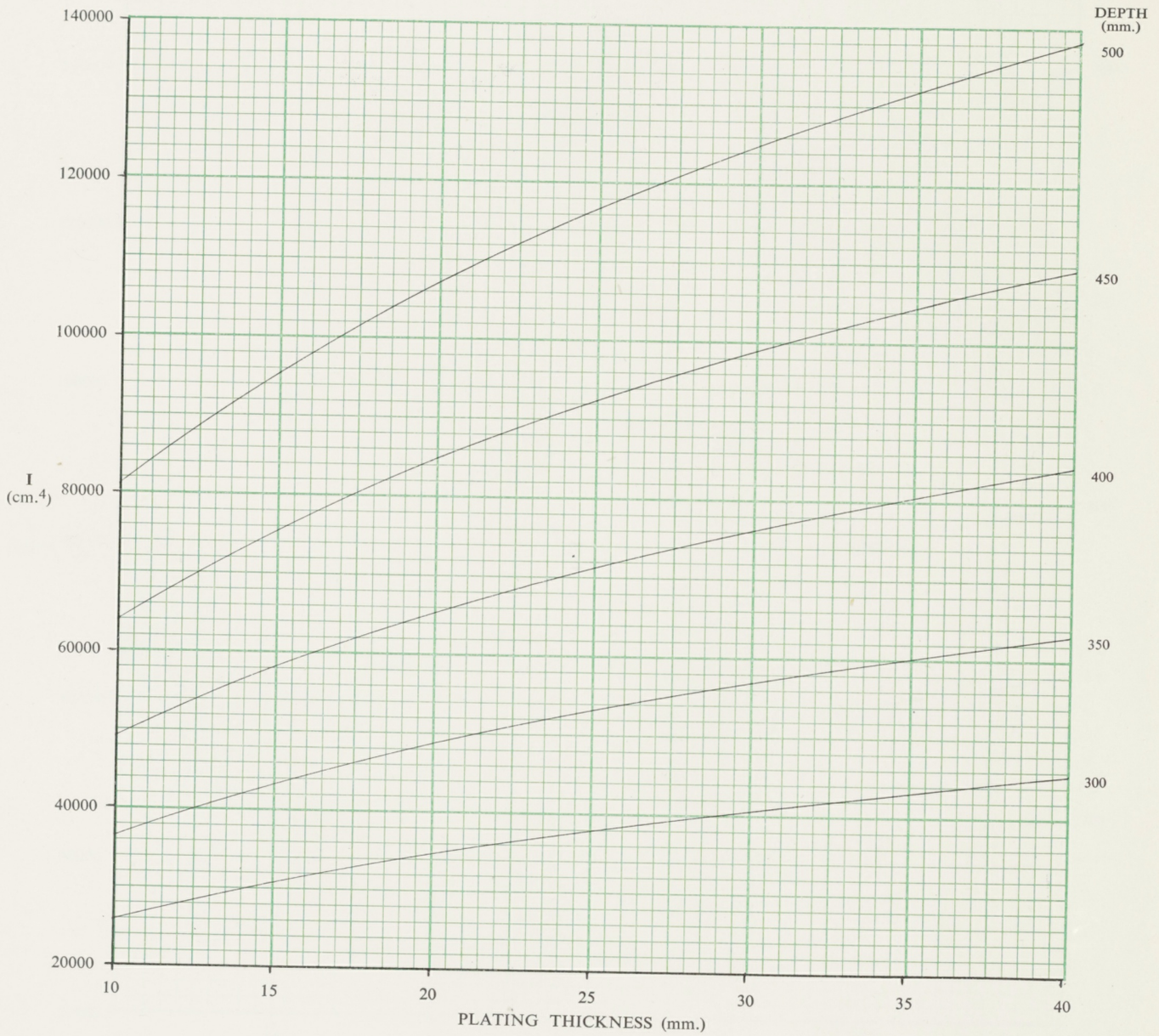


MOMENT OF INERTIA OF T - SECTIONS (NORRBOTTEN)

(WITH PLATING)

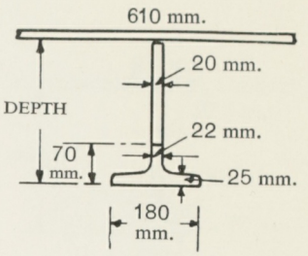


Built from 180 mm. × 25 mm. × 22 mm. Norrbotten T - Profile and 18 mm. Web Plate

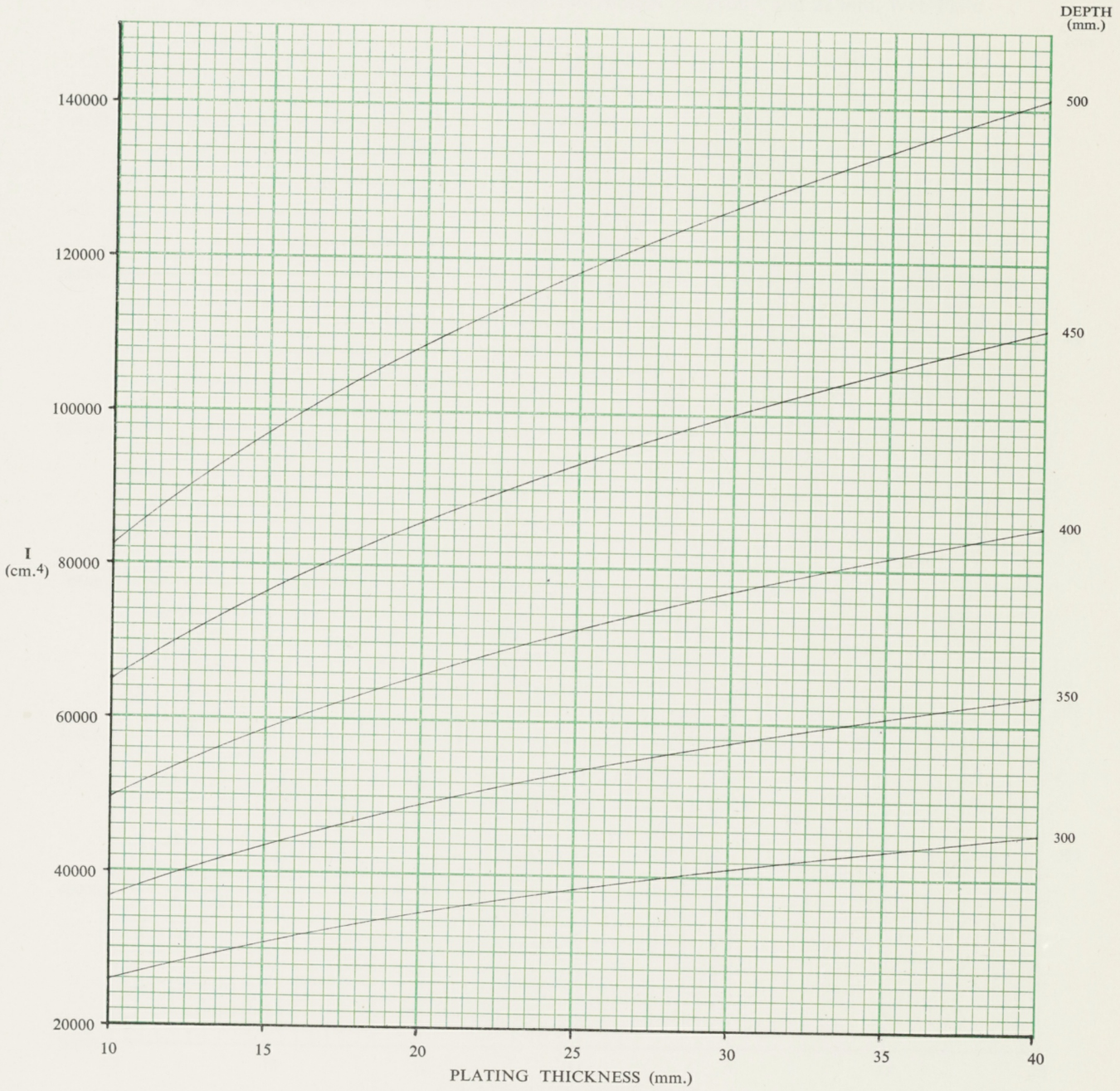


MOMENT OF INERTIA OF T - SECTIONS (NORRBOTTEN)

(WITH PLATING)

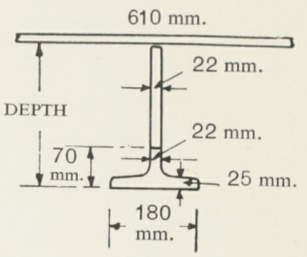


Built from 180 mm. × 25 mm. × 22 mm. Norrbotten T - Profile and 20 mm. Web Plate



MOMENT OF INERTIA OF T - SECTIONS (NORRBOTTEN)

(WITH PLATING)



Built from 180 mm. × 25 mm. × 22 mm. Norrbotten T - Profile and 22 mm. Web Plate